

<110> Ruben et al.

<120> 26 Human secreted proteins

<130> PZ040P1

<140> Unassigned

<141> 2000-12-01

<150> PCT/US00/15187

<151> 2000-06-02

<150> 60/137,725

<151> 1999-06-07

<160> 190

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp	Ser	Xaa	Trp	Ser
1				5

<210> 3

<211> 86

<212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcggcaagct ttttgcaaag cctagggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
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 gccctaact ccgccagtt ccgccattc tccgccccat ggctgactaa ttttttttat 180
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 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
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<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

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<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

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 ccatctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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 cagttccgcc cattctccgc ccatggctg actaattttt tttatttatg cagaggccga 180
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 cttttgcaaa aagctt 256

<210> 11
 <211> 2318
 <212> DNA

004021 64992/60

<213> Homo sapiens

<400> 11

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<210> 12

<211> 1923

<212> DNA

<213> Homo sapiens

<400> 12

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 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1257

<212> DNA

<213> Homo sapiens

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<211> 1181

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (903)

<223> n equals a,t,g, or c

<400> 28

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 <212> DNA
 <213> Homo sapiens

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 <211> 2100
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (430)
 <223> n equals a,t,g, or c

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 $\langle 220 \rangle$

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 $\langle 222 \rangle \quad (349)$

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 $\langle 220 \rangle$

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<211> 3466

<212> DNA

<213> Homo sapiens

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 $\langle 222 \rangle$ (3462)

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 $\langle 220 \rangle$

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 $\langle 222 \rangle$ (3466)

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<211> 3468

<212> DNA

<213> Homo sapiens

<400> 36

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 <213> Homo sapiens

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<212> DNA
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<223> n equals a,t,g, or c
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<212> DNA

<213> Homo sapiens

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Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser Arg Val Arg Cys
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Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro His Leu Cys Cys
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Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln His Gly Glu Leu

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 180 185 190
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 210 215 220
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 245 250 255
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 260 265 270
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Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
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Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
  65             70             75             80

Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
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Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
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Leu Pro Ala Gly Leu Ala Ser Phe Val Glu Val Val Ser Leu Trp Phe
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Ala Thr Cys Thr His Tyr Thr Gln Leu Val Trp Ala Thr Ser Ser Gln
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Leu Gly Cys Gly Arg His Leu Cys Ser Ala Gly Gln Ala Ala Ile Glu
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Lys Thr Ile Ile Pro Tyr Lys Lys Gly Ala Trp Cys Ser Leu Cys Thr
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Arg Leu Asn Ile Ser Thr Cys His Cys His Cys Pro Pro Gly Tyr Thr
245 250 255

Gly Arg Tyr Cys Gln Val Arg Cys Ser Leu Gln Cys Val His Gly Arg
260 265 270

Phe Arg Glu Glu Glu Cys Ser Cys Val Cys Asp Ile Gly Tyr Gly Gly
275 280 285

Ala Gln Cys Ala Thr Lys Val His Phe Pro Phe His Thr Cys Asp Leu
290 295 300

Arg Ile Asp Gly Asp Cys Phe Met Val Ser Ser Glu Ala Asp Thr Tyr
305 310 315 320

Tyr Arg Ala Arg Met Lys Cys Gln Arg Lys Gly Gly Val Leu Ala Gln
325 330 335

Ile Lys Ser Gln Lys Val Gln Asp Ile Leu Ala Phe Tyr Leu Gly Arg
340 345 350

Leu Glu Thr Thr Asn Glu Val Ile Asp Ser Asp Phe Glu Thr Arg Asn
355 360 365

Phe Trp Ile Gly Leu Thr Tyr Lys Thr Ala Lys Asp Ser Phe Arg Trp
370 375 380

Ala Thr Gly Glu His Gln Ala Phe Thr Ser Phe Ala Phe Gly Gln Pro
385 390 395 400

Asp Asn His Gly Phe Gly Asn Cys Val Glu Leu Gln Ala Ser Ala Ala
405 410 415

Phe Asn Trp Asn Asn Gln Arg Cys Lys Thr Arg Asn Arg Tyr Ile Cys
420 425 430

Gln Phe Ala Gln Glu His Ile Ser Arg Trp Gly Pro Gly Ser
435 440 445

<210> 48

<211> 834

<212> PRT

<213> Homo sapiens

<400> 48

Met Lys His Thr Leu Ala Leu Leu Ala Pro Leu Leu Gly Leu Gly Leu
1 5 10 15

Gly Leu Ala Leu Ser Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe
20 25 30

Leu Gly Pro Ala Glu His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg
35 40 45

Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr
50 55 60

001021" E492260

Val Val Gln Glu Leu Lys Lys Ala Val Ala Gln Gln Pro Glu Gly Val
 370 375 380
 Arg Thr Leu Ala Glu Gly Phe Pro Gly Leu Glu Ala Ala Ser Arg Trp
 385 390 395 400
 Ala Gln Ala Leu Gln Glu Val Glu Glu Ser Ser Arg Pro Tyr Leu Gln
 405 410 415
 Glu Val Gln Arg Tyr Glu Thr Tyr Arg Trp Ile Val Gly Cys Val Leu
 420 425 430
 Cys Ser Val Val Leu Phe Val Val Leu Cys Asn Leu Leu Gly Leu Asn
 435 440 445
 Leu Gly Ile Trp Gly Leu Ser Ala Arg Asp Asp Pro Ser His Pro Glu
 450 455 460
 Ala Lys Gly Glu Ala Gly Ala Arg Phe Leu Met Ala Gly Val Gly Leu
 465 470 475 480
 Ser Phe Leu Phe Ala Ala Pro Leu Ile Leu Leu Val Phe Ala Thr Phe
 485 490 495
 Leu Val Gly Gly Asn Val Gln Thr Leu Val Cys Arg Ser Trp Glu Asn
 500 505 510
 Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser
 515 520 525
 Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His
 530 535 540
 Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu
 545 550 555 560
 Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln
 565 570 575
 Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr
 580 585 590
 Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala
 595 600 605
 Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val
 610 615 620
 Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln
 625 630 635 640
 Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln
 645 650 655
 Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys
 660 665 670
 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg

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<210> 49
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 49
Met Glu Phe Cys Leu Ile Phe Leu Leu Leu Ile Leu Glu Phe Cys Gln
 1             5             10             15

Ile Phe Asp Cys Leu Arg Lys Cys Tyr Tyr Arg Leu Thr Cys Leu Ser
      20             25             30

Cys Leu Leu Leu Asn Leu Leu Ile Phe Phe Ser Glu Lys Val Val Ser
 35             40             45

Glu Asn Pro Asn Ile Val Val Ile Gly Leu Ala Xaa Val Ile Met Leu
 50             55             60

Ser Ile Met Phe Ile Lys Trp Leu Leu Ile Leu Leu Ile Phe Leu Leu
 65             70             75             80

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Ser Phe Lys Asn Leu Gly Lys Glu Gln Glu Glu Arg Glu Asp Leu Leu
 85 90 95

Asn Ser Leu Leu Thr Thr Ser
 100

<210> 50
 <211> 419
 <212> PRT
 <213> Homo sapiens

<400> 50
 Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15

Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30

Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45

Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60

Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80

Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95

Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110

Arg Pro Phe Glu Arg Ser Thr Ile Arg Ser Arg Ser Phe Lys Lys Ile
 115 120 125

Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140

Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr Thr Ala
 145 150 155 160

Pro Glu Val Phe Pro Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile
 165 170 175

Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile
 180 185 190

Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln
 195 200 205

His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro
 210 215 220

Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro
 225 230 235 240

001021 "E492260

His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu Trp
 245 250 255
 Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn Gly Gln
 260 265 270
 Ala Pro Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu
 275 280 285
 Asn Lys Ser Ser Pro Glu Glu Gln Leu Gly Ile Lys Leu Val Arg Lys
 290 295 300
 Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly Gly Val
 305 310 315 320
 Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu Ala Ile
 325 330 335
 Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala His Leu
 340 345 350
 Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg Gln Val
 355 360 365
 Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Gly Trp Asn Ser Asn
 370 375 380
 Gly Ser Trp Ser Pro Gly Pro Gly Glu Arg Ser Asn Thr Pro Lys Pro
 385 390 395 400
 Leu His Pro Thr Ile Thr Cys His Glu Lys Val Val Asn Ile Gln Lys
 405 410 415
 Arg Pro Arg

<210> 51
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 51
 Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp
 1 5 10 15
 Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala
 20 25 30
 Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys
 35 40 45
 Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg
 50 55 60
 Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn
 65 70 75 80

007264-1200

Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg
 85 90 95
 Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly
 100 105 110
 Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile
 115 120 125
 Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu
 130 135 140
 Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp
 145 150 155 160
 Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala
 165 170 175
 Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys
 180 185 190
 Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys
 195 200 205
 Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly
 210 215 220
 Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu
 225 230 235 240
 Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala
 245 250 255
 Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp
 260 265 270
 Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe
 275 280 285
 Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu
 290 295 300
 Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro
 305 310 315 320
 Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln
 325 330 335
 Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys
 340 345 350
 Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys
 355 360 365
 Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn
 370 375 380

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Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp
385 390 395 400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe
405 410 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu
420 425 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly
435 440 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu
450 455 460

Gln Asn Ile His
465

<210> 52
<211> 347
<212> PRT
<213> Homo sapiens

<400> 52
Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val
1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp
20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu
50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala Ile Ser Ala
85 90 95

Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala
100 105 110

Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val
115 120 125

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg
130 135 140

Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu
145 150 155 160

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile
165 170 175

001021 14992260

Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr
340 345

Gln Asp Arg Glu Ser Leu Leu Ala Glu Gln Pro Trp Pro His Asn Gly
35 40 45

Phe Val Ala Ile Ser Trp His Asn Val Glu Asp Glu Ala Ala Asp Gln
 50 55 60
 Arg Phe Met Ser Val Arg Thr Ser Ala Leu Arg Glu Gln Phe Ala Trp
 65 70 75 80
 Leu Arg Glu Asn Gly Tyr Gln Pro Val Ser Ile Ala Gln Ile Arg Glu
 85 90 95
 Ala His Arg Gly Gly Lys Pro Leu Pro Glu Lys Ala Val Val Leu Thr
 100 105 110
 Phe Asp Asp Gly Tyr Gln Ser Phe Tyr Thr Arg Val Phe Pro Ile Leu
 115 120 125
 Gln Ala Phe Gln Trp Pro Ala Val Trp Ala Pro Val Gly Ser Trp Val
 130 135 140
 Asp Thr Pro Ala Asp Lys Gln Val Lys Phe Gly Asp Glu Leu Val Asp
 145 150 155 160
 Arg Glu Tyr Phe Ala Thr Trp Gln Gln Val Arg Glu Val Ala Arg Ser
 165 170 175
 Arg Leu Val Glu Leu Ala Ser His Thr Trp Asn Ser His Tyr Gly Ile
 180 185 190
 Gln Ala Asn Ala Thr Gly Ser Leu Leu Pro Val Tyr Val Asn Arg Ala
 195 200 205
 Tyr Phe Thr Asp His Ala Arg Tyr Glu Thr Ala Ala Glu Tyr Arg Glu
 210 215 220
 Arg Ile Arg Leu Asp Ala Val Lys Met Thr Glu Tyr Leu Arg Thr Lys
 225 230 235 240
 Val Glu Val Asn Pro His Val Xaa Xaa Trp Pro Tyr Gly Glu Ala Asn
 245 250 255
 Gly Ile Ala Ile Glu Glu Leu Lys Lys Leu Gly Tyr Asp Met Phe Phe
 260 265 270
 Thr Leu Glu Ser Gly Leu Ala Asn Ala Ser Gln Leu Asp Ser Ile Pro
 275 280 285
 Arg Val Leu Ile Ala Asn Asn Pro Ser Leu Lys Glu Phe Ala Gln Gln
 290 295 300
 Ile Ile Thr Val Gln Glu Lys Ser Pro Gln Arg Ile Met His Ile Asp
 305 310 315 320
 Leu Asp Tyr Val Tyr Asp Glu Asn Leu Gln Gln Met Asp Arg Asn Ile
 325 330 335
 Asp Val Leu Ile Gln Arg Val Lys Asp Met Gln Ile Ser Thr Val Tyr
 340 345 350

001021 2492250

His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu

<210>	56
<211>	79
<212>	PRT

Gly Val Leu Trp Trp Pro Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu
50 55 60

Thr Val Thr Pro Glu Gln Leu Gln Ile Ala Glu Asp Asn Leu Arg Ala
 65 70 75 80
 Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val Phe Thr Val Ile Leu Phe
 85 90 95
 Leu Ile Met Leu Val Met Arg Lys Arg Val Ala Leu Thr Ile Ala Leu
 100 105 110
 Phe His Val Ala Gly Lys Val Phe Ile His Leu Pro Leu Leu Val Phe
 115 120 125
 Gln Pro Phe Trp Thr Phe Phe Ala Leu Val Leu Phe Trp Val Tyr Trp
 130 135 140
 Ile Met Thr Leu Leu Phe Leu Gly Thr Thr Gly Ser Pro Val Gln Asn
 145 150 155 160
 Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met
 165 170 175
 Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu
 180 185 190
 Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe
 195 200 205
 Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val
 210 215 220
 Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe
 225 230 235 240
 Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His
 245 250 255
 Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys
 260 265 270
 Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu
 275 280 285
 Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys
 290 295 300
 Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg
 305 310 315 320
 Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys
 325 330 335
 Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asn
 340 345 350
 Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys
 355 360 365

001021 120100

Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met
370 375 380

Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn
385 390 395 400

Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu
405 410 415

Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly
420 425 430

Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg
435 440 445

<210> 59

<211> 58

<212> PRT

<213> Homo sapiens

<400> 59

Met Leu Phe Phe Tyr Leu Asn Tyr Leu Met Ile Ala Leu Leu Leu Leu
1 5 10 15

Phe Lys Lys Ile Gln Lys Ser Asn Lys Gly Lys Asp Gly Asn Leu Met
20 25 30

Ile Glu Gly Val Ala Cys Val Thr Val Gly Gly Lys Glu Tyr Ile Asp
35 40 45

Phe Ala Leu Val Asp Ile Phe Met Leu Val
50 55

<210> 60

<211> 941

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (807)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (809)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (815)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (819)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 60

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Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
 1           5           10           15

Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
      20           25           30

Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
      35           40           45

Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
      50           55           60

Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
      65           70           75           80

Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
      85           90           95

Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
      100          105          110

Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
      115          120          125

Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
      130          135          140

Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
      145          150          155          160

Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
      165          170          175

Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
      180          185          190

Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
      195          200          205

Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
      210          215          220

Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
      225          230          235          240

Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
      245          250          255

Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
      260          265          270

Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
      275          280          285

Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro

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290	295	300
Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu 305 310 315 320		
Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala 325 330 335		
Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala 340 345 350		
His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp 355 360 365		
Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe 370 375 380		
Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe 385 390 395 400		
Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser 405 410 415		
His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met 420 425 430		
Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu 435 440 445		
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr 450 455 460		
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp 465 470 475 480		
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly 485 490 495		
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser His Trp His Gln 500 505 510		
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg 515 520 525		
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met 530 535 540		
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly 545 550 555 560		
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met 565 570 575		
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro 580 585 590		
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr 595 600 605		

Ile 610	Val	His	Tyr	Glu	Asp	Asp 615	Gly	Trp	Asp	Ser	Leu 620	Thr	Gly	Leu	Leu
Lys 625	Gly	Thr	His	Thr	Ala 630	Val	Ser	Ser	Asn	Asp 635	Arg	Ala	Ser	Leu	Ile 640
Asn	Asn	Ala	Phe	Gln 645	Leu	Val	Ser	Ile	Gly 650	Lys	Leu	Ser	Ile	Glu 655	Lys
Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys 665	His	Glu	Thr	Glu	Ile	Met	Pro
Val	Phe	Gln 675	Gly	Leu	Asn	Glu	Leu	Ile 680	Pro	Met	Tyr	Lys 685	Leu	Met	Glu
Lys	Arg 690	Asp	Met	Asn	Glu	Val 695	Glu	Thr	Gln	Phe	Lys 700	Ala	Phe	Leu	Ile
Arg 705	Leu	Leu	Arg	Asp	Leu 710	Ile	Asp	Lys	Gln	Thr 715	Trp	Thr	Asp	Glu	Gly 720
Ser	Val	Ser	Glu	Arg 725	Met	Leu	Arg	Ser	Glu 730	Leu	Leu	Leu	Leu	Ala 735	Cys
Val	His	Asn 740	Tyr	Gln	Pro	Cys	Val	Gln 745	Arg	Ala	Glu	Gly	Tyr	Phe	Arg
Lys	Trp	Lys 755	Glu	Ser	Asn	Gly	Asn 760	Leu	Ser	Leu	Pro	Val	Asp	Val	Thr
Leu	Ala 770	Val	Phe	Ala	Val	Gly 775	Ala	Gln	Ser	Thr	Glu 780	Gly	Trp	Asp	Phe
Leu 785	Tyr	Ser	Lys	Tyr	Gln 790	Phe	Ser	Leu	Ser	Ser 795	Thr	Glu	Lys	Ser	Gln 800
Ile	Glu	Phe	Ala	Leu 805	Cys	Xaa	Pro	Xaa	Asn 810	Lys	Glu	Lys	Leu	Xaa 815	Trp
Leu	Leu	Xaa 820	Glu	Ser	Phe	Lys	Gly	Asp 825	Lys	Ile	Lys	Thr	Gln 830	Glu	Phe
Pro	Gln 835	Ile	Leu	Thr	Leu	Ile	Gly 840	Arg	Asn	Pro	Val	Gly 845	Tyr	Pro	Leu
Ala	Trp 850	Gln	Phe	Leu	Arg	Lys 855	Asn	Trp	Asn	Lys	Leu 860	Val	Gln	Lys	Phe
Glu 865	Leu	Gly	Ser	Ser	Ser 870	Ile	Ala	His	Met	Val 875	Met	Gly	Thr	Thr	Asn 880
Gln	Phe	Ser	Thr	Arg 885	Thr	Arg	Leu	Glu	Glu 890	Val	Lys	Gly	Phe	Phe 895	Ser
Ser	Leu	Lys 900	Glu	Asn	Gly	Ser	Gln	Leu 905	Arg	Cys	Val	Gln	Gln 910	Thr	Ile

Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
930 935 940

<213> Homo sapiens

Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val
1 5 10 15

Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys
35 40 45

Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu
65 70 75 80

Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu
100 105 110

Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala
130 135 140

Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala
165 170 175

Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr
195 200 205

Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala Phe
225 230 235 240

His	Thr	Ile	Pro	Val	Ile	Gln	Arg	Ala	Gly	Gly	Ala	Val	Leu	Thr	Lys
				245				250				255			
Ala	Thr	Val	Gln	Ser	Val	Leu	Leu	Asp	Ser	Ala	Gly	Lys	Ala	Cys	Gly
				260				265				270			
Val	Ser	Val	Lys	Lys	Gly	His	Glu	Leu	Val	Asn	Ile	Tyr	Cys	Pro	Ile
				275				280				285			
Val	Val	Ser	Asn	Ala	Gly	Leu	Phe	Asn	Thr	Tyr	Glu	His	Leu	Leu	Pro
				290				295				300			
Gly	Asn	Ala	Arg	Cys	Leu	Pro	Gly	Val	Lys	Gln	Gln	Leu	Gly	Thr	Val
				310				315				320			
Arg	Pro	Gly	Leu	Gly	Met	Thr	Ser	Val	Phe	Ile	Cys	Leu	Arg	Gly	Thr
				325				330				335			
Lys	Glu	Asp	Leu	His	Leu	Pro	Ser	Thr	Asn	Tyr	Tyr	Val	Tyr	Tyr	Asp
				340				345				350			
Thr	Asp	Met	Asp	Gln	Ala	Met	Glu	Arg	Tyr	Val	Ser	Met	Pro	Arg	Glu
				355				360				365			
Glu	Ala	Ala	Glu	His	Ile	Pro	Leu	Leu	Phe	Phe	Ala	Phe	Pro	Ser	Ala
				370				375				380			
Lys	Asp	Pro	Thr	Trp	Glu	Asp	Arg	Phe	Pro	Gly	Arg	Ser	Thr	Met	Ile
				385				390				395			
Met	Leu	Ile	Pro	Thr	Ala	Tyr	Glu	Trp	Phe	Glu	Glu	Trp	Gln	Ala	Glu
				405				410				415			
Leu	Lys	Gly	Lys	Arg	Gly	Ser	Asp	Tyr	Glu	Thr	Phe	Lys	Asn	Ser	Phe
				420				425				430			
Val	Glu	Ala	Ser	Met	Ser	Val	Val	Leu	Lys	Leu	Phe	Pro	Gln	Leu	Glu
				435				440				445			
Gly	Lys	Val	Glu	Ser	Val	Thr	Ala	Gly	Ser	Pro	Leu	Thr	Asn	Gln	Phe
				450				455				460			
Tyr	Leu	Ala	Ala	Pro	Arg	Gly	Ala	Cys	Tyr	Gly	Ala	Asp	His	Asp	Leu
				465				470				475			
Gly	Arg	Leu	His	Pro	Cys	Val	Met	Ala	Ser	Leu	Arg	Ala	Gln	Ser	Pro
				485				490				495			
Ile	Pro	Asn	Leu	Tyr	Leu	Thr	Gly	Gln	Asp	Ile	Phe	Thr	Cys	Gly	Leu
				500				505				510			
Val	Gly	Ala	Leu	Gln	Gly	Ala	Leu	Leu	Cys	Ser	Ser	Ala	Ile	Leu	Lys
				515				520				525			
Arg	Asn	Leu	Tyr	Ser	Asp	Leu	Lys	Asn	Leu	Asp	Ser	Arg	Ile	Arg	Ala
				530				535				540			
Gln	Lys	Lys	Lys	Asn											

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<210> 62
<211> 326
<212> PRT
<213> Homo sapiens
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Met	Arg	Thr	Glu	Ala	Gln	Val	Pro	Ala	Leu	Gln	Pro	Pro	Glu	Pro	Gly
1				5					10					15	
Leu	Glu	Gly	Ala	Met	Gly	His	Arg	Thr	Leu	Val	Leu	Pro	Trp	Val	Leu
			20					25					30		
Leu	Thr	Leu	Cys	Val	Thr	Ala	Gly	Thr	Pro	Glu	Val	Trp	Val	Gln	Val
		35					40					45			
Arg	Met	Glu	Ala	Thr	Glu	Leu	Ser	Ser	Phe	Thr	Ile	Arg	Cys	Gly	Phe
	50					55					60				
Leu	Gly	Ser	Gly	Ser	Ile	Ser	Leu	Val	Thr	Val	Ser	Trp	Gly	Gly	Pro
65					70					75					80
Asp	Gly	Ala	Gly	Gly	Thr	Thr	Leu	Ala	Val	Leu	His	Pro	Glu	Arg	Gly
				85					90					95	
Ile	Arg	Gln	Trp	Ala	Pro	Ala	Arg	Gln	Ala	Arg	Trp	Glu	Thr	Gln	Ser
		100						105					110		
Ser	Ile	Ser	Leu	Ile	Leu	Glu	Gly	Ser	Gly	Ala	Ser	Ser	Pro	Cys	Ala
		115					120					125			
Asn	Thr	Thr	Phe	Cys	Cys	Lys	Phe	Ala	Ser	Phe	Pro	Glu	Gly	Ser	Trp
	130					135					140				
Glu	Ala	Cys	Gly	Ser	Leu	Pro	Pro	Ser	Ser	Asp	Pro	Gly	Leu	Ser	Ala
145					150					155					160
Pro	Pro	Thr	Pro	Ala	Pro	Ile	Leu	Arg	Ala	Asp	Leu	Ala	Gly	Ile	Leu
				165					170					175	
Gly	Val	Ser	Gly	Val	Leu	Leu	Phe	Gly	Cys	Val	Tyr	Leu	Leu	His	Leu
		180						185					190		
Leu	Arg	Arg	His	Lys	His	Arg	Pro	Ala	Pro	Arg	Leu	Gln	Pro	Ser	Arg
		195					200					205			
Thr	Ser	Pro	Gln	Ala	Pro	Arg	Ala	Arg	Ala	Trp	Ala	Pro	Ser	Gln	Ala
	210					215					220				
Ser	Gln	Ala	Ala	Leu	His	Val	Pro	Tyr	Ala	Thr	Ile	Asn	Thr	Ser	Cys
225					230					235					240
Arg	Pro	Ala	Thr	Leu	Asp	Thr	Ala	His	Pro	His	Gly	Gly	Pro	Ser	Trp
				245					250					255	
Trp	Ala	Ser	Leu	Pro	Thr	His	Ala	Ala	His	Arg	Pro	Gln	Gly	Pro	Ala

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<210> 63
<211> 267
<212> PRT
<213> Homo sapiens

<400> 63
Met Ala Pro Trp Ala Leu Leu Ser Pro Gly Val Leu Val Arg Thr Gly
  1              5              10              15
His Thr Val Leu Thr Trp Gly Ile Thr Leu Val Leu Phe Leu His Asp
      20              25              30
Thr Glu Leu Arg Gln Trp Glu Glu Gln Gly Glu Leu Leu Leu Pro Leu
      35              40              45
Thr Phe Leu Leu Leu Val Leu Gly Ser Leu Leu Leu Tyr Leu Ala Val
      50              55              60
Ser Leu Met Asp Pro Gly Tyr Val Asn Val Gln Pro Gln Pro Gln Glu
      65              70              75              80
Glu Leu Lys Glu Glu Gln Thr Ala Met Val Pro Pro Ala Ile Pro Leu
      85              90              95
Arg Arg Cys Arg Tyr Cys Leu Val Leu Gln Pro Leu Arg Ala Arg His
      100             105             110
Cys Arg Glu Cys Arg Arg Cys Val Arg Arg Tyr Asp His His Cys Pro
      115             120             125
Trp Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val
      130             135             140
Tyr Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala
      145             150             155             160
Trp Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser
      165             170             175
Ser Gly Leu Leu Phe Ala Thr Phe Leu Leu Leu Ser Leu Phe Ser Leu
      180             185             190
Val Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn

```

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<210> 63
<211> 267
<212> PRT
<213> Homo sapiens

<400> 63
Met Ala Pro Trp Ala Leu Leu Ser Pro Gly Val Leu Val Arg Thr Gly
 1             5             10             15
His Thr Val Leu Thr Trp Gly Ile Thr Leu Val Leu Phe Leu His Asp
          20             25             30
Thr Glu Leu Arg Gln Trp Glu Glu Gln Gly Glu Leu Leu Leu Pro Leu
          35             40             45
Thr Phe Leu Leu Leu Val Leu Gly Ser Leu Leu Leu Tyr Leu Ala Val
          50             55             60
Ser Leu Met Asp Pro Gly Tyr Val Asn Val Gln Pro Gln Pro Gln Glu
 65             70             75             80
Glu Leu Lys Glu Glu Gln Thr Ala Met Val Pro Pro Ala Ile Pro Leu
          85             90             95
Arg Arg Cys Arg Tyr Cys Leu Val Leu Gln Pro Leu Arg Ala Arg His
          100            105            110
Cys Arg Glu Cys Arg Arg Cys Val Arg Arg Tyr Asp His His Cys Pro
          115            120            125
Trp Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val
          130            135            140
Tyr Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala
145             150             155             160
Trp Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser
          165            170            175
Ser Gly Leu Leu Phe Ala Thr Phe Leu Leu Leu Ser Leu Phe Ser Leu
          180            185            190
Val Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn

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195 200 205

Thr Thr Thr Trp Glu Phe Ile Ser Ser His Arg Ile Ala Tyr Leu Arg
210 215 220

Gln Arg Pro Ser Asn Pro Phe Asp Arg Gly Leu Thr Arg Asn Leu Ala
225 230 235 240

His Phe Phe Cys Gly Trp Pro Ser Gly Ser Trp Glu Thr Leu Trp Ala
245 250 255

Glu Glu Glu Glu Glu Gly Ser Ser Pro Ala Val
260 265

<210> 64
<211> 62
<212> PRT
<213> Homo sapiens

<400> 64

Met Lys Ser Gln Ser Pro Leu Arg Ser Met Leu Leu Val Gly Gly Leu
1 5 10 15

Val Ser Val Leu Ala Glu His Leu Gln His Pro Gln Ser Arg Gln Pro
20 25 30

Pro Leu Ser His Leu Ser Ser His Leu Thr Trp Asp Ala Gln Val Glu
35 40 45

Leu Asp Arg Ile Phe Leu Ser Ile Arg Pro Pro Glu Val Pro
50 55 60

<210> 65
<211> 46
<212> PRT
<213> Homo sapiens

<400> 65

Met Asn Val Thr Val Thr Leu Pro Lys Tyr His Leu Ala Leu Ile Trp
1 5 10 15

Leu Leu Phe His Phe Gly Trp Ala Leu Leu Ser Val Cys Ser Lys Thr
20 25 30

Val Leu Met Asn Leu Ser Asn Val His Asn Ala Val Ile Gly
35 40 45

<210> 66
<211> 84
<212> PRT
<213> Homo sapiens

<400> 66

Met Tyr Leu Gly Arg Arg Trp Phe Phe Leu Tyr Leu Cys Pro Phe Pro
1 5 10 15

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<210> 67
<211> 44
<212> PRT
<213> Homo sapiens

<400> 67
Met Gly Leu Phe Pro Lys Leu Leu Ser Leu Ile Phe Gln Ile Val Tyr
 1             5             10             15
Phe Leu Pro Ser Ala Leu Glu Met Thr Val Ala Ser Pro Ser Cys His
          20             25             30
Phe Cys Asp Ala Leu Glu Ser Leu Phe Phe Ser Asn
          35             40

<210> 68
<211> 55
<212> PRT
<213> Homo sapiens

<400> 68
Met Gln Thr Cys Gln Ala Ile Lys Gly Ser Cys Leu Ser Val Ser Leu
 1             5             10             15
Ile Leu Leu Cys Ala Ala Ser Thr Glu Gly Phe Arg Ala Pro Asp Leu
          20             25             30
Phe Cys Val Leu Arg Lys Ser Lys Cys Leu Ala Arg Thr Gln Pro Phe
          35             40             45
Phe Leu His Pro Glu Thr Ser
 50             55

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<210> 69
<211> 83
<212> PRT
<213> Homo sapiens
<220>
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<400> 69
Met Gly His Phe Ala Pro Gly Val Phe His Leu Gly Ile Met Phe Thr
  1              5              10              15
Gly Leu Ile Pro Val Val Val Cys Ser Ser Pro Ala Phe Leu Pro Val
          20              25              30
Ala Glu Tyr Leu Ile His Cys Val Gly Ile His His Xaa Leu Val Asp
      35              40              45
Gly Thr Phe Gly Val Val Phe His Leu Leu Val Met Met Gly Xaa Xaa
  50              55              60
Pro Gln Gln Thr Phe Val Leu Gln Ser Phe Ala Val Ala Xaa Gly Arg
  65              70              75              80
Phe Phe Leu

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<400> 70
Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp
  1                      5                      10                      15

Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala
      20                      25                      30

Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys
      35                      40                      45

```

Glu 50	Pro	Leu	Ile	Pro	Ala	Ser 55	Pro	Lys	Ala	Glu	Pro 60	Ile	Trp	Glu	Leu
Pro 65	Thr	Arg	Ala	Pro	Arg 70	Leu	Ser	Ile	Gly	Asp 75	Leu	Asp	Phe	Ser	Asp 80
Leu	Gly	Glu	Asp	Glu 85	Asp	Gln	Asp	Met	Leu 90	Asn	Val	Glu	Ser	Val 95	Glu
Ala	Gly	Lys	Asp 100	Ile	Pro	Ala	Pro	Ser 105	Pro	Pro	Leu	Pro	Leu	Leu	Ser
Gly	Val	Pro 115	Pro	Pro	Pro	Pro	Leu 120	Pro	Pro	Pro	Pro	Pro 125	Ile	Lys	Gly
Pro	Phe 130	Pro	Pro	Pro	Pro	Pro 135	Leu	Pro	Leu	Ala	Ala 140	Pro	Leu	Pro	His
Ser 145	Val	Pro	Asp	Ser	Ser 150	Ala	Leu	Pro	Thr	Lys 155	Arg	Lys	Thr	Val	Lys 160
Leu	Phe	Trp	Arg	Glu 165	Leu	Lys	Leu	Ala	Gly 170	Gly	His	Gly	Val	Ser 175	Ala
Ser	Arg	Phe	Gly 180	Pro	Cys	Ala	Thr	Leu 185	Trp	Ala	Ser	Leu	Asp 190	Pro	Val
Ser	Val	Asp 195	Thr	Ala	Arg	Leu	Glu 200	His	Leu	Phe	Glu	Ser 205	Arg	Ala	Lys
Glu 210	Val	Leu	Pro	Ser	Lys	Lys 215	Ala	Gly	Glu	Gly	Arg 220	Arg	Thr	Met	Thr
Thr 225	Val	Leu	Asp	Pro	Lys 230	Arg	Ser	Asn	Ala	Ile	Asn 235	Ile	Gly	Leu	Thr 240
Thr	Leu	Pro	Pro	Val 245	His	Val	Ile	Lys	Ala 250	Ala	Leu	Leu	Asn	Phe 255	Asp
Glu	Phe	Ala	Val 260	Ser	Lys	Asp	Gly	Ile 265	Glu	Lys	Leu	Leu	Thr 270	Met	Met
Pro	Thr	Glu 275	Glu	Glu	Arg	Gln	Lys 280	Ile	Glu	Glu	Ala	Gln 285	Leu	Ala	Asn
Pro	Asp 290	Ile	Pro	Leu	Gly	Pro 295	Ala	Glu	Asn	Phe	Leu 300	Met	Thr	Leu	Ala
Ser 305	Ile	Gly	Gly	Leu	Ala 310	Ala	Arg	Leu	Gln	Leu 315	Trp	Ala	Phe	Lys	Leu 320
Asp	Tyr	Asp	Ser	Met 325	Glu	Arg	Glu	Ile	Ala 330	Glu	Pro	Leu	Phe	Asp 335	Leu
Lys	Val	Gly	Met 340	Glu	Gln	Leu	Val	Gln 345	Asn	Ala	Thr	Phe	Arg	Cys	Ile

Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser
355 360 365

Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp
370 375 380

Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu
385 390 395 400

Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu
405 410 415

Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp
420 425 430

Lys Ala

<210> 71

<211> 43

<212> PRT

<213> Homo sapiens

<400> 71

Met Gly Asn Gln Lys Leu Leu Leu Ser Leu Glu Val Leu Pro Gln Leu
1 5 10 15

Leu Leu Val Leu Ile Leu Met Pro Trp Phe Leu Leu Val Gly Lys Gly
20 25 30

His Ser Tyr His Ser Glu Glu Gln Glu Lys Ser
35 40

<210> 72

<211> 322

<212> PRT

<213> Homo sapiens

<400> 72

Met Lys Tyr Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly
1 5 10 15

Lys Thr Glu Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp
20 25 30

Lys Lys Tyr Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr
35 40 45

Gly Leu Val Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val
50 55 60

Leu Cys Ser Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val
65 70 75 80

His Ile Pro His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro
85 90 95

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Pro Val Asn Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr
 100 105 110
 Thr Tyr Gln His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn
 115 120 125
 Arg Gln Pro Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val
 130 135 140
 Tyr Cys Gly Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val
 145 150 155 160
 Ser Val Pro Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu
 165 170 175
 Ser Trp Glu His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg
 180 185 190
 Glu Ala Arg His Ser Tyr His His Ser His Tyr Asp Pro Pro Pro Ser
 195 200 205
 Arg Gln Ala Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg
 210 215 220
 Gly Ala Leu Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile
 225 230 235 240
 Val Ile Asn Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly
 245 250 255
 Lys Thr Tyr Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe
 260 265 270
 Gly Ile Val Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu
 275 280 285
 Cys Lys Lys Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln
 290 295 300
 Lys Ile Asp Gly Lys Cys Cys Lys Val Cys Pro Gly Lys Lys Lys Lys
 305 310 315 320
 Lys Lys

<210> 73
 <211> 306
 <212> PRT
 <213> Homo sapiens

<400> 73
 Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15
 Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30

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<210> 74
<211> 114

<212> PRT

<213> Homo sapiens

<400> 74

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val
1				5					10					15	
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp
		20						25				30			
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys
		35					40					45			
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu
	50					55					60				
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly
	65				70					75					80
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Glu	Ser	Gln	Leu
				85					90					95	
Ser	Lys	Trp	Ala	Gln	Thr	Cys	Pro	Thr	Cys	Ser	Val	Pro	Val	Arg	Pro
			100					105					110		
His	Leu														

<210> 75

<211> 114

<212> PRT

<213> Homo sapiens

<400> 75

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val
1				5					10					15	
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp
		20						25				30			
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys
		35					40					45			
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu
	50					55					60				
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly
	65				70					75					80
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Glu	Ser	Gln	Leu
				85					90					95	
Ser	Lys	Trp	Ala	Gln	Thr	Cys	Pro	Thr	Cys	Ser	Val	Pro	Val	Arg	Pro
			100					105					110		
His	Leu														

00T02T"E499260

<210> 76
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 76
 Met Tyr Ala Cys Val Cys Arg Val Leu Gln Pro Gly Cys Gly Arg Val
 1 5 10 15
 Leu Val Cys Ala Arg Val Pro Ala Trp Leu Trp Val Cys Val Cys Val
 20 25 30
 Cys Val Cys Val Cys Val Cys Val Leu Ala Ser Gly Ala Val Arg Pro
 35 40 45
 Leu Arg Val Gly Ala Leu Phe Ser Ala His Trp Lys Pro Ser Pro Phe
 50 55 60
 Ser Gln Met Pro Gly Arg Gly Gly Ala Ala Val Gly Thr His Leu Val
 65 70 75 80
 Leu Leu Ser Asp Leu
 85

<210> 77
 <211> 154
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu Leu
 1 5 10 15
 Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser
 20 25 30
 Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg
 35 40 45
 Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys
 50 55 60
 His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu
 65 70 75 80
 Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser
 85 90 95
 Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu
 100 105 110
 Cys Arg Gln Ala Cys Lys Gln Ala Ser Ser Lys Asn Asp Ile Ser Lys
 115 120 125
 Val Cys Arg Lys Glu Tyr Glu Pro Val Leu Arg Tyr Phe Ser Val Leu

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130 135 140

Pro Ser Leu Val Trp Ile Ser Ala Leu Pro
145 150

<210> 78
<211> 161
<212> PRT
<213> Homo sapiens

<400> 78
Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu Leu
1 5 10 15
Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser
20 25 30
Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg
35 40 45
Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys
50 55 60
His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu
65 70 75 80
Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser
85 90 95
Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu
100 105 110
Cys Arg Gln Ala Cys Ser Arg His Leu Gln Arg Met Ile Phe Pro Lys
115 120 125
Phe Ala Glu Lys Asn Met Ser Leu Ser Ser Val Ile Leu Val Cys Phe
130 135 140
Leu Leu Leu Ser Gly Phe Leu His Cys Pro Arg Lys Ser Ala Ser Met
145 150 155 160
Cys

<210> 79
<211> 51
<212> PRT
<213> Homo sapiens

<400> 79
Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Phe Val Pro
1 5 10 15
Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly
20 25 30

Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr
 35 40 45

Trp Phe Pro
 50

<210> 80
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val
 1 5 10 15

Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His
 20 25 30

Gln Met Asp Leu Cys Leu Leu His
 35 40

<210> 81
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 81
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg
 1 5 10 15

Gly Xaa Arg Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe
 20 25 30

Ala Val Val Gln
 35

<210> 82
 <211> 489
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg
 1 5 10 15

000021" E4992650

Gly	Xaa	Arg	Arg	Pro	Val	Pro	Ser	Leu	Lys	Val	Leu	Ser	Pro	Phe	
			20				25					30			
Ala	Val	Val	Gln	Met	Arg	Lys	Lys	Trp	Lys	Met	Gly	Gly	Met	Lys	Tyr
		35					40					45			
Ile	Phe	Ser	Leu	Leu	Phe	Phe	Leu	Leu	Leu	Glu	Gly	Gly	Lys	Thr	Glu
	50					55					60				
Gln	Val	Lys	His	Ser	Glu	Thr	Tyr	Cys	Met	Phe	Gln	Asp	Lys	Lys	Tyr
65					70					75					80
Arg	Val	Gly	Glu	Arg	Trp	His	Pro	Tyr	Leu	Glu	Pro	Tyr	Gly	Leu	Val
				85					90					95	
Tyr	Cys	Val	Asn	Cys	Ile	Cys	Ser	Glu	Asn	Gly	Asn	Val	Leu	Cys	Ser
		100					105						110		
Arg	Val	Arg	Cys	Pro	Asn	Val	His	Cys	Leu	Ser	Pro	Val	His	Ile	Pro
	115						120					125			
His	Leu	Cys	Cys	Pro	Arg	Cys	Pro	Glu	Asp	Ser	Leu	Pro	Pro	Val	Asn
130						135					140				
Asn	Lys	Val	Thr	Ser	Lys	Ser	Cys	Glu	Tyr	Asn	Gly	Thr	Thr	Tyr	Gln
145					150					155					160
His	Gly	Glu	Leu	Phe	Val	Ala	Glu	Gly	Leu	Phe	Gln	Asn	Arg	Gln	Pro
				165					170					175	
Asn	Gln	Cys	Thr	Gln	Cys	Ser	Cys	Ser	Glu	Gly	Asn	Val	Tyr	Cys	Gly
		180						185					190		
Leu	Lys	Thr	Cys	Pro	Lys	Leu	Thr	Cys	Ala	Phe	Pro	Val	Ser	Val	Pro
	195						200					205			
Asp	Ser	Cys	Cys	Arg	Val	Cys	Arg	Gly	Asp	Gly	Glu	Leu	Ser	Trp	Glu
210						215					220				
His	Ser	Asp	Gly	Asp	Ile	Phe	Arg	Gln	Pro	Ala	Asn	Arg	Glu	Ala	Arg
225					230					235					240
His	Ser	Tyr	His	Arg	Ser	His	Tyr	Asp	Pro	Pro	Pro	Ser	Arg	Gln	Ala
				245					250					255	
Gly	Gly	Leu	Ser	Arg	Phe	Pro	Gly	Ala	Arg	Ser	His	Arg	Gly	Ala	Leu
		260						265					270		
Met	Asp	Ser	Gln	Gln	Ala	Ser	Gly	Thr	Ile	Val	Gln	Ile	Val	Ile	Asn
	275						280					285			
Asn	Lys	His	Lys	His	Gly	Gln	Val	Cys	Val	Ser	Asn	Gly	Lys	Thr	Tyr
	290					295					300				
Ser	His	Gly	Glu	Ser	Trp	His	Pro	Asn	Leu	Arg	Ala	Phe	Gly	Ile	Val
305					310					315					320
Glu	Cys	Val	Leu	Cys	Thr	Cys	Asn	Val	Thr	Lys	Gln	Glu	Cys	Lys	Lys

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<210> 83
<211> 20
<212> PRT
<213> Homo sapiens

<400> 83
Glu Thr Ser Arg Val Ala Glu Pro Gly Cys Ala Arg Ser Pro Asp Gly
 1             5             10             15
Pro Asn Arg Pro
          20

<210> 84
<211> 83
<212> PRT
<213> Homo sapiens

<400> 84
Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe Leu Gly Pro Ala Glu
 1             5             10             15
His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg Trp Leu Ala Pro Arg
          20             25             30

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Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr Gly Thr Val Arg Arg
 35 40 45
 Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro Ser Glu Leu Val Lys
 50 55 60
 Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val Asn Glu Val Val Arg
 65 70 75 80
 Tyr Glu Ala

<210> 85
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 85
 Val Cys Ala Phe Val Thr Asn Gln Arg Thr His Glu Gln Met Gly Pro
 1 5 10 15
 Ser Ile Glu Ala Met Pro Glu Thr Leu Leu Ser Leu Trp Gly Leu Val
 20 25 30
 Ser Asp Val Pro Gln Glu Leu Gln Ala Val Ala Gln Gln Phe Ser Leu
 35 40 45
 Pro Gln Glu Gln Val Ser Glu Glu Leu Asp Gly Val Gly Val Ser Ile
 50 55 60
 Gly Ser Ala Ile His Thr Gln Leu Arg Ser Ser Val Tyr Pro Leu Leu
 65 70 75 80
 Ala Ala Val Gly Ser Leu Gly Gln Val Leu Gln Val Ser Val His His
 85 90 95
 Leu Gln Thr Leu Asn Ala Thr Val Val Glu Leu Gln Ala Gly Gln Gln
 100 105 110
 Asp Leu Glu Pro Ala Ile Arg Glu His Arg Asp Arg Leu Leu Glu Leu
 115 120 125
 Leu Gln Glu Ala Arg Cys Gln Gly Asp Cys Ala Gly Ala Leu Ser Trp
 130 135 140
 Ala Arg Thr Leu Glu Leu Gly Ala Asp Phe Ser Gln Val Pro Ser Val
 145 150 155 160
 Asp His Val Leu His Gln Leu Lys Gly Val Pro Glu Ala Asn Phe Ser
 165 170 175
 Ser Met Val Gln Glu Glu Asn Ser Thr Phe Asn Ala Leu Pro Ala Leu
 180 185 190
 Ala Ala Met Gln Thr Ser Ser Val Val Gln Glu Leu Lys Lys Ala Val
 195 200 205

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Trp

<400> 86															
Val	Gly	Gly	Asn	Val	Gln	Thr	Leu	Val	Cys	Arg	Ser	Trp	Glu	Asn	Gly
1				5				10						15	
Glu	Leu	Phe	Glu	Phe	Ala	Asp	Thr	Pro	Gly	Asn	Leu	Pro	Pro	Ser	Met
			20					25					30		
Asn	Leu	Ser	Gln	Leu	Leu	Gly	Leu	Arg	Lys	Asn	Ile	Ser	Ile	His	Gln
		35					40					45			
Ala	Tyr	Gln	Gln	Cys	Lys	Glu	Gly	Ala	Ala	Leu	Trp	Thr	Val	Leu	Gln
	50					55						60			
Leu	Asn	Asp	Ser	Tyr	Asp	Leu	Glu	Glu	His	Leu	Asp	Ile	Asn	Gln	Tyr
65					70					75					80
Thr	Asn	Lys	Leu	Arg	Gln	Glu	Leu	Gln	Ser	Leu	Lys	Val	Asp	Thr	Gln
				85					90					95	
Ser	Leu	Asp	Leu	Leu	Ser	Ser	Ala	Ala	Arg	Arg	Asp	Leu	Glu	Ala	Leu
			100					105					110		
Gln	Ser	Ser	Gly	Leu	Gln	Arg	Ile	His	Tyr	Pro	Asp	Phe	Leu	Val	Gln
		115					120					125			
Ile	Gln	Arg	Pro	Val	Val	Lys	Thr	Ser	Met	Glu	Gln	Leu	Ala	Gln	Glu
	130					135					140				
Leu	Gln	Gly	Leu	Ala	Gln	Ala	Gln	Asp	Asn	Ser	Val	Leu	Gly	Gln	Arg
145					150					155					160
Leu	Gln	Glu	Glu	Ala	Gln	Gly	Leu	Arg	Asn	Leu	His	Gln	Glu	Lys	Val
				165					170					175	
Val	Pro	Gln	Gln	Ser	Leu	Val	Ala	Lys	Leu	Asn	Leu	Ser	Val	Arg	Ala
			180					185					190		
Leu	Glu	Ser	Ser	Ala	Pro	Asn	Leu	Gln	Leu	Glu	Thr	Ser	Asp	Val	Leu
		195					200					205			

Ala Asn Val Thr Tyr Leu Lys Gly Glu Leu Pro Ala Trp Ala Ala Arg
210 215 220

Ile Leu Arg Asn Val Ser Glu Cys Phe Leu Ala Arg Glu Met Gly Tyr
225 230 235 240

Phe Ser Gln Tyr Val Ala Trp Val Arg Glu Glu Val Thr Gln Arg Ile
245 250 255

Ala Thr Cys Gln Pro Leu Ser Gly Ala Leu Asp Asn Ser Arg Val Ile
260 265 270

Leu Cys Asp Met Met Ala Asp Pro Trp Asn Ala Phe Trp Phe Cys
275 280 285

<210> 87

<211> 40

<212> PRT

<213> Homo sapiens

<400> 87

Lys Gln Leu His Phe Lys Met Gln Met Thr Val Gly Glu Lys Glu Tyr
1 5 10 15

Pro Val Cys Cys Gln Leu Ile Leu Phe Ser Leu Cys Cys Phe Ile Trp
20 25 30

Glu Glu Leu Phe Leu Tyr Ile Lys
35 40

<210> 88

<211> 70

<212> PRT

<213> Homo sapiens

<400> 88

Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly
1 5 10 15

Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val
20 25 30

Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp
35 40 45

Ile Leu Leu Asn Val Asp Gly Val Arg Thr Asp Arg Gly Gln Pro Gly
50 55 60

Val Arg Gln Trp His Tyr
65 70

<210> 89

<211> 38

<212> PRT

<213> Homo sapiens

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<400> 89

Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly
 1 5 10 15

Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val
 20 25 30

Glu Pro Gly Gly Val Ile
 35

<210> 90

<211> 32

<212> PRT

<213> Homo sapiens

<400> 90

Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp
 1 5 10 15

Gly Val Arg Thr Asp Arg Gly Gln Pro Gly Val Arg Gln Trp His Tyr
 20 25 30

<210> 91

<211> 122

<212> PRT

<213> Homo sapiens

<400> 91

Phe Ser Thr Lys Val Gly Pro Glu Glu Gln Leu Gly Ile Lys Leu Val
 1 5 10 15

Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly
 20 25 30

Gly Val Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu
 35 40 45

Ala Ile Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala
 50 55 60

His Leu Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg
 65 70 75 80

Gln Val Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Ala Leu Glu
 85 90 95

Gln Gln Trp Gln Leu Val Pro Arg Ala Arg Gly Glu Glu Gln His Ser
 100 105 110

Gln Ala Pro Pro Ser Tyr Asn Tyr Leu Ser
 115 120

0010021" E499360

<400> 95
Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser
1 5 10 15

Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln
 20 25 30
 Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala
 35 40 45
 Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro
 50 55 60
 Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala
 65 70 75 80
 Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly
 85 90 95
 Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr
 100 105 110
 Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly
 115 120 125
 Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys
 130 135 140
 Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr
 145 150 155 160
 Phe Leu

<210> 96
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 96
 Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser
 1 5 10 15

Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln
 20 25 30

Glu Asp Cys Ser
 35

<210> 97
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 97
 Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro Pro Ser Asp
 1 5 10 15

Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg Cys Leu Tyr
 20 25 30

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Asn Cys Lys Asp Ile Val Leu Arg Arg
 35 40

<210> 98

<211> 43

<212> PRT

<213> Homo sapiens

<400> 98

Asn Thr Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu
 1 5 10 15

Tyr Asn Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr
 20 25 30

Pro Ala Tyr Asn Asp Gly Arg Ile Arg Cys Gly
 35 40

<210> 99

<211> 42

<212> PRT

<213> Homo sapiens

<400> 99

Asp Ile Leu Leu Ala Val Asn Gly Arg Ser Thr Ser Gly Met Ile His
 1 5 10 15

Ala Cys Leu Ala Arg Leu Leu Lys Glu Leu Lys Gly Arg Ile Thr Leu
 20 25 30

Thr Ile Val Ser Trp Pro Gly Thr Phe Leu
 35 40

<210> 100

<211> 209

<212> PRT

<213> Homo sapiens

<400> 100

Met Thr Val Ala Gly Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile
 1 5 10 15

Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg
 20 25 30

Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu Leu Thr
 35 40 45

Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser Ser
 50 55 60

Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln Glu
 65 70 75 80

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Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro
85 95

Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg
100 105 110

Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala Gly
115 120 125

Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly Asn
130 135 140

Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr Asn
145 150 155 160

Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly Arg
165 170 175

Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys Glu
180 185 190

Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr Phe
195 200 205

Leu

<210> 101

<211> 242

<212> PRT

<213> Homo sapiens

<400> 101

Met Ala Thr Ser Thr Ile Thr Ser Arg Arg Leu Met Ser Gly Phe Leu
1 5 10 15

Phe Leu Pro Val Ser Ser Phe Ser Met Ser Phe Phe Phe Phe Ser Thr
20 25 30

Cys Ser Val Thr Leu Ile Thr Ser Phe Cys Ile Phe Pro Val Ser Val
35 40 45

Ser Phe Phe Ile Ala Val Glu Asn Thr Trp Cys Arg Thr Val Ile Thr
50 55 60

Leu Pro Leu Ser Leu Ser Gly Ala Phe Ser Phe Ser Val Pro Ile Thr
65 70 75 80

Val Ser Leu Ser Val Ser Val Ser Leu Ser Ile Ser Val Phe Leu Ser
85 90 95

Ser Gly Ile Ile Val Pro Leu Leu Ala Gly Val His Lys Thr Arg Pro
100 105 110

Arg Arg Ser Arg Thr Arg Lys Met Gly Lys Gly Asn Ile Ala Ile Trp
115 120 125

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Lys Cys Thr Cys Arg Thr Thr Ile Ile Thr Arg Gly Met Ser Thr Phe
130 135 140

Tyr Cys Trp Tyr Lys Arg Trp Arg Trp Ser Ala Trp Trp Arg Arg Lys
145 150 155 160

Thr Arg Trp Trp Asn Gln Arg Trp Ser Ser Ala Asp Ser Arg Arg Arg
165 170 175

Trp Lys Lys Trp Arg Arg Trp Lys Val Ser Gly Arg Ser Ser Trp Arg
180 185 190

Glu Lys Arg Arg Trp Phe Ala Lys Ile Val Val Tyr Phe Ser Ser Arg
195 200 205

Ser Phe Arg Lys Asp Leu Tyr Val Ala Val Leu Ile Cys Pro Ser Pro
210 215 220

Ala Phe Tyr Ser Ala Asp Ser Tyr Ser Leu Thr Asp Asn Ile Asn Cys
225 230 235 240

Pro Arg

<210> 102

<211> 520

<212> PRT

<213> Homo sapiens

<400> 102

Met Ser Ala Gly Glu Val Glu Arg Leu Val Ser Glu Leu Ser Gly Gly
1 5 10 15

Thr Gly Gly Asp Glu Glu Glu Glu Trp Leu Tyr Gly Asp Glu Asn Glu
20 25 30

Val Glu Arg Pro Glu Glu Glu Asn Ala Ser Ala Asn Pro Pro Ser Gly
35 40 45

Ile Glu Asp Glu Thr Ala Glu Asn Gly Leu Pro Lys Pro Lys Val Thr
50 55 60

Glu Thr Glu Asp Asp Ser Asp Ser Asp Ser Asp Asp Asp Glu Asp Asp
65 70 75 80

Val His Val Thr Ile Gly Asp Ile Lys Thr Gly Ala Pro Gln Tyr Gly
85 90 95

Ser Tyr Gly Thr Ala Pro Val Asn Leu Asn Ile Lys Thr Gly Gly Arg
100 105 110

Val Tyr Gly Thr Thr Gly Thr Lys Val Lys Gly Val Asp Leu Asp Ala
115 120 125

Pro Gly Ser Ile Asn Gly Val Pro Leu Leu Glu Val Asp Leu Asp Ser
130 135 140

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Phe Glu Asp Lys Pro Trp Arg Lys Pro Gly Ala Asp Leu Ser Asp Tyr
 145 150 155 160
 Phe Asn Tyr Gly Phe Asn Glu Asp Thr Trp Lys Ala Tyr Cys Glu Lys
 165 170 175
 Gln Lys Arg Ile Arg Met Gly Leu Glu Val Ile Pro Val Thr Ser Thr
 180 185 190
 Thr Asn Lys Ile Thr Val Gln Gln Gly Arg Thr Gly Asn Ser Glu Lys
 195 200 205
 Glu Thr Ala Leu Pro Ser Thr Lys Ala Glu Phe Thr Ser Pro Pro Ser
 210 215 220
 Leu Phe Lys Thr Gly Leu Pro Pro Ser Arg Arg Leu Pro Gly Ala Ile
 225 230 235 240
 Asp Val Ile Gly Gln Thr Ile Thr Ile Ser Arg Val Glu Gly Arg Arg
 245 250 255
 Arg Ala Asn Glu Asn Ser Asn Ile Gln Val Leu Ser Glu Arg Ser Ala
 260 265 270
 Thr Glu Val Asp Asn Asn Phe Ser Lys Pro Pro Phe Phe Pro Pro
 275 280 285
 Gly Ala Pro Pro Thr His Leu Pro Pro Pro Phe Leu Pro Pro Pro
 290 295 300
 Pro Thr Val Ser Thr Ala Pro Pro Leu Ile Pro Pro Pro Gly Phe Pro
 305 310 315 320
 Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu Ile Pro Thr Ile Glu Ser
 325 330 335
 Gly His Ser Ser Gly Tyr Asp Ser Arg Ser Ala Arg Ala Phe Pro Tyr
 340 345 350
 Gly Asn Val Ala Phe Pro His Leu Pro Gly Ser Ala Pro Ser Trp Pro
 355 360 365
 Ser Leu Val Asp Thr Ser Lys Gln Trp Asp Tyr Tyr Ala Arg Arg Glu
 370 375 380
 Lys Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp
 385 390 395 400
 Arg Asp Arg Glu Arg Glu Arg Thr Arg Glu Arg Glu Arg Glu Arg Asp
 405 410 415
 His Ser Pro Thr Pro Ser Val Phe Asn Ser Asp Glu Glu Arg Tyr Arg
 420 425 430
 Tyr Arg Glu Tyr Ala Glu Arg Gly Tyr Glu Arg His Arg Ala Ser Arg
 435 440 445
 Glu Lys Glu Glu Arg His Arg Glu Arg Arg His Arg Glu Lys Glu Glu

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450 455 460
 Thr Arg His Lys Ser Ser Arg Ser Asn Ser Arg Arg Arg His Glu Ser
 465 470 475 480
 Glu Glu Gly Asp Ser His Arg Arg His Lys His Lys Lys Ser Lys Arg
 485 490 495
 Ser Lys Glu Gly Lys Glu Ala Gly Ser Glu Pro Ala Pro Glu Gln Glu
 500 505 510
 Ser Thr Glu Ala Thr Pro Ala Glu
 515 520

 <210> 103
 <211> 205
 <212> PRT
 <213> Homo sapiens

 <400> 103
 Met Ile Val Val Leu His Val His Phe His Met Ala Met Leu Pro Phe
 1 5 10 15
 Pro Ile Phe Leu Val Leu Leu Leu Arg Gly Leu Val Leu Trp Thr Pro
 20 25 30
 Ala Ser Ser Gly Thr Ile Met Pro Glu Glu Arg Lys Thr Glu Ile Glu
 35 40 45
 Arg Glu Thr Glu Thr Glu Ser Glu Thr Val Ile Gly Thr Glu Lys Glu
 50 55 60
 Asn Ala Pro Glu Arg Glu Arg Gly Ser Val Ile Thr Val Leu His Gln
 65 70 75 80
 Val Phe Ser Thr Ala Met Lys Asn Asp Thr Asp Thr Gly Asn Met Gln
 85 90 95
 Lys Glu Val Met Ser Val Thr Glu Gln Val Glu Lys Lys Lys Asn Asp
 100 105 110
 Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg Lys Pro Asp Ile Ser Leu
 115 120 125
 Leu Glu Val Ile Val Asp Val Ala Met Lys Val Lys Lys Glu Ile Val
 130 135 140
 Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys Glu Ala Lys Lys Glu Lys
 145 150 155 160
 Lys Arg Ala Val Ser Leu Pro Leu Asn Arg Arg Ala Pro Lys Leu His
 165 170 175
 Leu Gln Asn Arg His Gly Phe Gly Leu Leu Cys Ile Leu Val Pro Glu
 180 185 190
 Val Asp Thr Ile Asn Leu Val Ile Phe Leu Asp Asn Ala

195 200 205

<210> 104
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 104
 His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro
 1 5 10 15
 Ser Val Gly Arg Gln Ala Ala Gly Ala Ala
 20 25

<210> 105
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 105
 His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro
 1 5 10 15
 Ser Val Gly Arg Gln Ala Ala Gly Ala Ala Met Gly Arg Gly Trp Gly
 20 25 30
 Phe Leu Phe Gly Leu Leu Gly Ala Val Trp Leu Leu Ser Ser Gly His
 35 40 45
 Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln
 50 55 60
 Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp
 65 70 75 80
 Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu
 85 90 95
 Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro
 100 105 110
 Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg Arg Asp Cys Ala Val Lys
 115 120 125
 Pro Cys Gln Ser Asp Glu Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr
 130 135 140
 Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile Glu Glu Cys Glu Gln Ala
 145 150 155 160
 Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys
 165 170 175
 Ala Val Leu Gln Trp Thr Lys His Asp Asp Ser Ser Asp Asn Phe Cys
 180 185 190

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Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu
 195 200 205
 Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys
 210 215 220
 Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile
 225 230 235 240
 Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu
 245 250 255
 Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu Cys Val Glu Lys Arg Ala
 260 265 270
 Phe Tyr Arg Leu Ile Ser Gly Leu His Ala Ser Ile Asn Val His Leu
 275 280 285
 Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly
 290 295 300
 His Asn Ile Thr Glu Phe Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu
 305 310 315 320
 Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile
 325 330 335
 Glu Leu Arg Ala Leu Ser Lys Val Leu Pro Phe Phe Glu Arg Pro Asp
 340 345 350
 Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln Asp Glu Glu Asn Lys Met
 355 360 365
 Leu Leu Leu Glu Ile Leu His Glu Ile Lys Ser Phe Pro Leu His Phe
 370 375 380
 Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys Lys Glu Ala His Lys Leu
 385 390 395 400
 Lys Glu Asp Phe Arg Leu His Phe Arg Asn Ile Ser Arg Ile Met Asp
 405 410 415
 Cys Val Gly Cys Phe Lys Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln
 420 425 430
 Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala
 435 440 445
 Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu Phe His Leu Thr Arg Gln
 450 455 460
 Glu Ile Val Ser Leu Phe Asn Ala Phe Gly Arg Ile Ser Thr Ser Val
 465 470 475 480
 Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu Gln Asn Ile His
 485 490

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<210> 106
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 106
 Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val
 1 5 10 15
 Arg Ser Ile Pro Phe Gly Pro Gly
 20

<210> 107
 <211> 289
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (246)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (252)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 107
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys
 1 5 10 15
 Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys
 20 25 30
 Asn Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe
 35 40 45
 Cys Arg Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe
 50 55 60
 Cys Ala Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu
 65 70 75 80
 Ile Val His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu
 85 90 95
 Lys Trp Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly
 100 105 110
 Arg Asp Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser
 115 120 125

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Lys Ala Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Xaa
 130 135 140
 Val Ala Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu
 145 150 155 160
 Thr Pro Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg
 165 170 175
 Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser
 180 185 190
 Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile
 195 200 205
 Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser
 210 215 220
 Ala Gly Val Glu Gly Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser
 225 230 235 240
 Trp Tyr Thr Gly Arg Xaa Leu Leu Asp His Arg Xaa Gln Met Gly Pro
 245 250 255
 Ala Leu Ser Trp Trp Pro Arg Leu Ala Pro Ala Leu Ser Pro Gly Ser
 260 265 270
 Ala Thr Thr Lys Pro Ser Arg Ser Thr Val Ala Pro Pro Pro Pro Pro
 275 280 285

Thr

<210> 108
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 108
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys
 1 5 10 15
 Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys
 20 25 30

Asn

<210> 109
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 109
 Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe Cys
 1 5 10 15

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35

<210> 113
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 113
 Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln
 1 5 10 15
 Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu
 20 25 30
 Ser Asn Gly Gln
 35

<210> 114
 <211> 36
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 114
 Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Ala Gly Val Glu Gly
 1 5 10 15
 Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp Tyr Thr Gly Arg
 20 25 30
 Xaa Leu Leu Asp
 35

<210> 115
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115
 His Arg Xaa Gln Met Gly Pro Ala Leu Ser Trp Trp Pro Arg Leu Ala
 1 5 10 15
 Pro Ala Leu Ser Pro Gly Ser Ala Thr Thr Lys Pro Ser Arg Ser Thr
 20 25 30
 Val Ala Pro Pro Pro Pro Pro Thr

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40

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<400> 116
Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val
 1             5             10             15
Arg Ser Ile Pro Phe Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly
          20             25             30
Thr Ala Val Ala Gly Ala Val Val Val Ala Leu Leu Ser Ala Ala Leu
      35             40             45
Ala Leu Tyr Gly Pro Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser
      50             55             60
Leu Arg Lys Ala His Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu
 65             70             75             80
Val Arg Asn Ile Ile Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln
          85             90             95
Asp Gly Arg Ile Gly Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala
          100             105             110
Pro Tyr Phe Ala Glu Ser Gln Leu Ser Lys Trp Ala Gln Thr Cys Pro
          115             120             125
Thr Cys Ser Val Pro Val Arg Pro His Leu
      130             135

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<210> 117
<211> 366
<212> PRT
<213> Homo sapiens
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<400> 117
Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val Arg Ser Ile Pro Phe
  1                      5                      10                      15

Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly
          20                      25                      30

Ala Val Val Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro
          35                      40                      45

Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His
  50                      55                      60

Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile
  65                      70                      75                      80

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Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly
 85 90 95
 Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala
 100 105 110
 Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala
 115 120 125
 Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val
 130 135 140
 His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp
 145 150 155 160
 Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp
 165 170 175
 Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala
 180 185 190
 Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala
 195 200 205
 Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro
 210 215 220
 Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro
 225 230 235 240
 Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala
 245 250 255
 Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser
 260 265 270
 Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg
 275 280 285
 Cys Gly Gly Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val
 290 295 300
 His Trp Ala Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro
 305 310 315 320
 Leu Leu Val Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn
 325 330 335
 His Gln Ala Phe Gln Lys His Gly Arg Ser Thr Thr Thr Ser Asp Met
 340 345 350
 Ile Ala Glu Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr
 355 360 365

<210> 118

<211> 12

<212> PRT

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<213> Homo sapiens

<400> 118

Gly Thr Ser Ala Ala Leu Glu Pro Pro Gly Pro Asp
1 5 10

<210> 119

<211> 83

<212> PRT

<213> Homo sapiens

<400> 119

Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met
1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys
20 25 30

Arg Glu Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro
35 40 45

Ser Gln Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser Ile Ser Pro Gln
50 55 60

Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu Ser Asn Glu Glu
65 70 75 80

Pro Asn Gly

<210> 120

<211> 34

<212> PRT

<213> Homo sapiens

<400> 120

Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met
1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys
20 25 30

Arg Glu

<210> 121

<211> 26

<212> PRT

<213> Homo sapiens

<400> 121

Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro Ser Gln
1 5 10 15

Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser

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20

25

<210> 122
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 122
 Ile Ser Pro Gln Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu
 1 5 10 15
 Ser Asn Glu Glu Pro Asn Gly
 20

<210> 123
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 123
 His Glu Arg Cys Pro Ala Pro Val Pro Ser Val Asn Pro Leu Ser Leu
 1 5 10 15
 Trp Cys Trp Phe Arg Ser Arg Leu Gln Gln Asn Asp Leu Gly Thr Ser
 20 25 30

<210> 124
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 124
 His Glu Pro Ser Gln Leu Pro Arg Pro His Ser Ser Thr Gly Trp Ser
 1 5 10 15
 Gly Arg Lys Trp Ala Leu Lys Thr Gly Phe Ser Ala Ser Ala Ser Arg
 20 25 30
 Lys Pro Glu Pro Trp Arg Cys Arg Ala Thr Val Cys Pro Pro Arg Val
 35 40 45
 Thr Thr Ala Ser Ala Ser Ala Gln Ser Ala Asp
 50 55

<210> 125
 <211> 487
 <212> PRT
 <213> Homo sapiens

<400> 125
 Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu

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1	5	10	15
Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu	20	25	30
Lys Ala Gly Ala Val Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly	35	40	45
Asp Tyr Arg Phe Arg Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro	50	55	60
His Val Val Phe His Gly Ser Ala His Leu Val Pro Thr Ala Arg Leu	65	70	75
Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly Glu Asp Ala Val	85	90	95
Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr Trp Phe Leu Asn	100	105	110
Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro Gly	115	120	125
Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu Ile	130	135	140
Leu His Ala Val Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser	145	150	155
Cys Pro Gly Val Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro	165	170	175
Val His Ile Leu Ser Pro Gln Asp Lys Val Ser Leu Thr Phe Thr Thr	180	185	190
Ser Glu Arg Val Val Leu Thr Cys Glu Leu Ser Arg Val Asp Phe Pro	195	200	205
Ala Thr Trp Tyr Lys Asp Gly Gln Lys Val Glu Glu Ser Glu Leu Leu	210	215	220
Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro Glu Ala	225	230	235
Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly Val Ser	245	250	255
Ala Phe Phe Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp	260	265	270
Pro Arg Glu His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met	275	280	285
Leu Ala Cys Glu Val Asp Arg Glu Asp Ala Pro Val Arg Trp Tyr Lys	290	295	300
Asp Gly Gln Glu Val Glu Glu Ser Asp Phe Val Val Leu Glu Asn Glu	305	310	315
			320

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Gly Pro His Arg Arg Leu Val Leu Pro Ala Thr His Pro Ser Asp Gly
 325 330 335
 Gly Glu Phe Gln Cys Val Ala Gly Asp Glu Cys Ala Tyr Phe Thr Val
 340 345 350
 Thr Ile Thr Asp Val Ser Ser Trp Ile Val Tyr Pro Ser Gly Lys Val
 355 360 365
 Tyr Val Ala Ala Val Arg Leu Glu Arg Val Val Leu Thr Cys Glu Leu
 370 375 380
 Cys Arg Pro Trp Ala Glu Val Arg Trp Thr Lys Asp Gly Glu Glu Val
 385 390 395 400
 Val Glu Ser Pro Ala Leu Leu Leu Gln Lys Glu Asp Thr Val Arg Arg
 405 410 415
 Leu Val Leu Pro Ala Val Gln Leu Glu Asp Ser Gly Glu Tyr Leu Cys
 420 425 430
 Glu Ile Asp Asp Glu Ser Ala Ser Phe Thr Val Thr Val Thr Glu Ser
 435 440 445
 Tyr Gln Ser Gln Asp Ser Ser Asn Asn Asn Pro Glu Leu Cys Val Leu
 450 455 460
 Leu Lys Lys Pro Lys Thr Arg Arg Leu Trp Ser Arg Phe Pro Pro Trp
 465 470 475 480
 Arg Arg Thr Ala Gly Thr Glu
 485

<210> 126

<211> 37

<212> PRT

<213> Homo sapiens

<400> 126

Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu
 1 5 10 15

Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu
 20 25 30

Lys Ala Gly Ala Val
 35

<210> 127

<211> 37

<212> PRT

<213> Homo sapiens

<400> 127

Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly Asp Tyr Arg Phe Arg

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1 5 10 15
 Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro His Val Val Phe His
 20 25 30

Gly Ser Ala His Leu
 35

<210> 128
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 128
 Val Pro Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr
 1 5 10 15

Asp Gly Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln
 20 25 30

Gly Thr Trp Phe Leu
 35

<210> 129
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 129
 Asn Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro
 1 5 10 15

Gly Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu
 20 25 30

Ile Leu His Ala Val
 35

<210> 130
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 130
 Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser Cys Pro Gly Val
 1 5 10 15

Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro Val His Ile Leu
 20 25 30

Ser Pro Gln Asp Lys
 35

<210> 131

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<211> 37
 <212> PRT
 <213> Homo sapiens

<400> 131
 Val Ser Leu Thr Phe Thr Thr Ser Glu Arg Val Val Leu Thr Cys Glu
 1 5 10 15
 Leu Ser Arg Val Asp Phe Pro Ala Thr Trp Tyr Lys Asp Gly Gln Lys
 20 25 30
 Val Glu Glu Ser Glu
 35

<210> 132
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 132
 Leu Leu Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro
 1 5 10 15
 Glu Ala Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly
 20 25 30
 Val Ser Ala Phe Phe
 35

<210> 133
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 133
 Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp Pro Arg Glu
 1 5 10 15
 His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met Leu Ala Cys
 20 25 30
 Glu Val Asp Arg Glu
 35

<210> 134
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 134
 Asp Ala Pro Val Arg Trp Tyr Lys Asp Gly Gln Glu Val Glu Glu Ser
 1 5 10 15
 Asp Phe Val Val Leu Glu Asn Glu Gly Pro His Arg Arg Leu Val Leu
 20 25 30

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Pro Ala Thr His Pro
35

<210> 135
<211> 37
<212> PRT
<213> Homo sapiens

<400> 135
Ser Asp Gly Gly Glu Phe Gln Cys Val Ala Gly Asp Glu Cys Ala Tyr
1 5 10 15
Phe Thr Val Thr Ile Thr Asp Val Ser Ser Trp Ile Val Tyr Pro Ser
20 25 30

Gly Lys Val Tyr Val
35

<210> 136
<211> 37
<212> PRT
<213> Homo sapiens

<400> 136
Ala Ala Val Arg Leu Glu Arg Val Val Leu Thr Cys Glu Leu Cys Arg
1 5 10 15
Pro Trp Ala Glu Val Arg Trp Thr Lys Asp Gly Glu Glu Val Val Glu
20 25 30

Ser Pro Ala Leu Leu
35

<210> 137
<211> 37
<212> PRT
<213> Homo sapiens

<400> 137
Leu Gln Lys Glu Asp Thr Val Arg Arg Leu Val Leu Pro Ala Val Gln
1 5 10 15
Leu Glu Asp Ser Gly Glu Tyr Leu Cys Glu Ile Asp Asp Glu Ser Ala
20 25 30

Ser Phe Thr Val Thr
35

<210> 138
<211> 43
<212> PRT
<213> Homo sapiens

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<400> 138

Val Thr Glu Ser Tyr Gln Ser Gln Asp Ser Ser Asn Asn Asn Pro Glu
 1 5 10 15

Leu Cys Val Leu Leu Lys Lys Pro Lys Thr Arg Arg Leu Trp Ser Arg
 20 25 30

Phe Pro Pro Trp Arg Arg Thr Ala Gly Thr Glu
 35 40

<210> 139

<211> 510

<212> PRT

<213> Homo sapiens

<400> 139

His Glu Ser Glu Tyr Thr Thr Ser Pro Lys Ser Ser Val Leu Cys Pro
 1 5 10 15

Lys Leu Pro Val Pro Ala Ser Ala Pro Ile Pro Phe Phe His Arg Cys
 20 25 30

Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys Phe Ala Glu Ala Leu Ile
 35 40 45

Thr Phe Val Ser Asp Asn Ser Val Leu His Arg Leu Ile Ser Gly Val
 50 55 60

Met Thr Ser Lys Glu Ile Ile Leu Gly Leu Cys Leu Leu Ser Leu Val
 65 70 75 80

Leu Ser Met Ile Leu Met Val Ile Ile Arg Tyr Ile Ser Arg Val Leu
 85 90 95

Val Trp Ile Leu Thr Ile Leu Val Ile Leu Gly Ser Leu Gly Gly Thr
 100 105 110

Gly Val Leu Trp Trp Pro Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu
 115 120 125

Thr Val Thr Pro Glu Gln Leu Gln Ile Ala Glu Asp Asn Leu Arg Ala
 130 135 140

Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val Phe Thr Val Ile Leu Phe
 145 150 155 160

Leu Ile Met Leu Val Met Arg Lys Arg Val Ala Leu Thr Ile Ala Leu
 165 170 175

Phe His Val Ala Gly Lys Val Phe Ile His Leu Pro Leu Leu Val Phe
 180 185 190

Gln Pro Phe Trp Thr Phe Phe Ala Leu Val Leu Phe Trp Val Tyr Trp
 195 200 205

Ile Met Thr Leu Leu Phe Leu Gly Thr Thr Gly Ser Pro Val Gln Asn
 210 215 220

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Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met
 225 230 235 240
 Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu
 245 250 255
 Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe
 260 265 270
 Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val
 275 280 285
 Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe
 290 295 300
 Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His
 305 310 315 320
 Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys
 325 330 335
 Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu
 340 345 350
 Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys
 355 360 365
 Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg
 370 375 380
 Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys
 385 390 395 400
 Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asn
 405 410 415
 Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys
 420 425 430
 Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met
 435 440 445
 Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn
 450 455 460
 Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu
 465 470 475 480
 Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly
 485 490 495
 Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg
 500 505 510

<210> 140

<211> 17

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<212> PRT

<213> Homo sapiens

<400> 140

Arg Leu Ser Ala Val Gly Ala Val Pro Phe Thr Arg Pro Asp Ala Gly
1 5 10 15

Val

<210> 141

<211> 7

<212> PRT

<213> Homo sapiens

<400> 141

Val Gly Pro Arg Ala Glu Ala
1 5

<210> 142

<211> 25

<212> PRT

<213> Homo sapiens

<400> 142

Gly Thr Arg Arg Ser Trp Gly Met Cys Arg Ala Thr Ala Gly Trp Ser
1 5 10 15

Pro Ala Glu Pro Pro Leu His Leu Trp
20 25

<210> 143

<211> 267

<212> PRT

<213> Homo sapiens

<400> 143

His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr
1 5 10 15

Ser Arg Ala Ala Pro Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu
20 25 30

Val Asp Ala Ala Gly Arg Trp Pro Gly Val Cys Val Ser Arg Thr Ser
35 40 45

Pro Thr Pro Pro Glu Ser Ala Thr Thr Val Lys Ser Leu Ile Lys Ser
50 55 60

Phe Asp Leu Gly Arg Pro Gly Gly Ala Gly Gln Asn Ile Ser Val His
65 70 75 80

Lys Thr Pro Arg Ser Pro Leu Ser Gly Ile Pro Val Arg Thr Ala Pro
85 90 95

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Ala Ala Ala Val Ser Pro Met Gln Arg His Ser Thr Tyr Ser Ser Val
100 105 110

Arg Pro Ala Ser Arg Gly Val Thr Gln Arg Leu Asp Leu Pro Asp Leu
115 120 125

Pro Leu Ser Asp Ile Leu Lys Gly Arg Thr Glu Thr Leu Lys Pro Asp
130 135 140

Pro His Leu Arg Lys Ser Pro Ser Leu Glu Ser Leu Ser Arg Pro Pro
145 150 155 160

Ser Leu Gly Phe Gly Asp Thr Arg Leu Leu Ser Ala Ser Thr Arg Ala
165 170 175

Trp Lys Pro Gln Ser Lys Leu Ser Val Glu Arg Lys Asp Pro Leu Ala
180 185 190

Ala Leu Ala Arg Glu Tyr Gly Gly Ser Lys Arg Asn Ala Leu Leu Lys
195 200 205

Trp Cys Gln Lys Lys Thr Gln Gly Tyr Ala Lys Arg Asn Leu Leu Leu
210 215 220

Ala Phe Glu Ala Ala Glu Ser Val Gly Ile Lys Pro Ser Leu Glu Leu
225 230 235 240

Ser Glu Met Leu Tyr Thr Asp Arg Pro Asp Trp Gln Ser Val Met Gln
245 250 255

Tyr Val Ala Gln Ile Tyr Lys Tyr Phe Glu Thr
260 265

<210> 144
<211> 42
<212> PRT
<213> Homo sapiens

<400> 144
His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr
1 5 10 15

Ser Arg Ala Ala Pro Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu
20 25 30

Val Asp Ala Ala Gly Arg Trp Pro Gly Val
35 40

<210> 145
<211> 42
<212> PRT
<213> Homo sapiens

<400> 145
Cys Val Ser Arg Thr Ser Pro Thr Pro Pro Glu Ser Ala Thr Thr Val
1 5 10 15

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<212> PRT

<213> Homo sapiens

<400> 149

Gln Lys Lys Thr Gln Gly Tyr Ala Lys Arg Asn Leu Leu Leu Ala Phe
 1 5 10 15

Glu Ala Ala Glu Ser Val Gly Ile Lys Pro Ser Leu Glu Leu Ser Glu
 20 25 30

Met Leu Tyr Thr Asp Arg Pro Asp Trp Gln Ser Val Met Gln Tyr Val
 35 40 45

Ala Gln Ile Tyr Lys Tyr Phe Glu Thr
 50 55

<210> 150

<211> 19

<212> PRT

<213> Homo sapiens

<400> 150

Ser Val Ser Lys Leu Pro Ala Asn Gly Lys Asn Val Asp Asp Val Ile
 1 5 10 15

Arg Asn Gln

<210> 151

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Thr Ser Met Thr Leu Phe Arg Ala Asp Thr Val Lys Asn Ile Glu Gly
 1 5 10 15

Glu Leu Thr Gln Ser Ala Arg Leu Gly Cys Gly Gly Gly Cys Leu Gly
 20 25 30

Gly Trp Leu Gln Phe His Leu Thr Val Ser Ser Phe Ser Gly Phe Glu
 35 40 45

Val Arg Gln Leu His Ala Gly Gly Ala Arg Lys Ala Glu Ser Arg Gln
 50 55 60

Gly Ser Asp Thr Gly Glu Arg Ala Cys Asp Leu Leu Ala Asp Thr Asn
 65 70 75 80

Pro Val Ala Arg Gly His His Phe Gln Gly Cys Trp Glu Gly Pro Gln
 85 90 95

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Leu Trp His
35

<210> 155
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 155
 Gly His Ser Gly Xaa Pro Ser Leu His Ala Pro Pro Thr Ser Ala Ser
 1 5 10 15
 His Pro Phe His Phe Leu Pro Thr Thr Met His Leu His Ser Glu Ser
 20 25 30

Ser

<210> 156
 <211> 107
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
 Glu Arg Ala Ser Ala Trp Pro Gly His Ser Pro Phe Ser Cys Thr Leu
 1 5 10 15
 Arg His Pro Lys Thr Leu Ala Val Ser Pro Ala Pro Val Tyr Leu Leu
 20 25 30
 Ser Ser Ser Ala Leu Phe Leu Pro Leu Thr Xaa Leu Pro Gly Ile Leu
 35 40 45
 Ser Gln Pro Glu Xaa Asn Pro Asn Arg Asn Glu Met Leu Ser Gly Asn
 50 55 60
 Leu Thr Lys Glu Ala Gln Ser His Phe Val Leu Pro Ser Pro His Ile
 65 70 75 80
 Pro Arg Thr Thr Ala Tyr Phe Lys Arg Thr Gln Thr Ile His Leu Tyr
 85 90 95
 Lys Gly Thr Ala Arg Lys Arg Ser Arg Gln Arg
 100 105

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<210> 157
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 157
 Glu Arg Ala Ser Ala Trp Pro Gly His Ser Pro Phe Ser Cys Thr Leu
 1 5 10 15
 Arg His Pro Lys Thr Leu Ala Val Ser Pro Ala Pro Val Tyr Leu Leu
 20 25 30
 Ser Ser Ser
 35

<210> 158
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 158
 Ala Leu Phe Leu Pro Leu Thr Xaa Leu Pro Gly Ile Leu Ser Gln Pro
 1 5 10 15
 Glu Xaa Asn Pro Asn Arg Asn Glu Met Leu Ser Gly Asn Leu Thr Lys
 20 25 30
 Glu Ala Gln
 35

<210> 159
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 159
 Ser His Phe Val Leu Pro Ser Pro His Ile Pro Arg Thr Thr Ala Tyr
 1 5 10 15
 Phe Lys Arg Thr Gln Thr Ile His Leu Tyr Lys Gly Thr Ala Arg Lys
 20 25 30
 Arg Ser Arg Gln Arg
 35

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<400> 161																
Gly	Pro	Ser	Trp	Pro	Leu	Trp	Pro	Arg	Ser	Ser	Leu	Gly	Pro	Cys	Leu	
1				5					10					15		
Val	Tyr	Arg	Val	Trp	Gly	Asp	Ser	Met	Cys	Thr	Pro	Leu	Leu	Ser	Gln	
			20					25					30			
Val	Asp	Phe	Glu	Gln	Leu	Thr	Glu	Asn	Leu	Gly	Gln	Leu	Glu	Arg	Arg	
		35					40					45				
Ser	Arg	Ala	Ala	Glu	Glu	Ser	Leu	Arg	Thr	Trp	Pro	Ser	Met	Ser	Trp	
	50					55					60					
Pro	Gln	Pro	Cys	Val	Pro	Ala	Ser	Pro	Thr	Ser	Trp	Thr	Ser	Val	Pro	
65					70					75					80	
Ala	Arg	Val	Ala	Met	Leu	Arg	Ile	Val	His	Arg	Arg	Val	Cys	Asn	Arg	
				85					90					95		
Phe	His	Ala	Phe	Leu	Leu	Tyr	Leu	Gly	Tyr	Thr	Pro	Gln	Ala	Ala	Arg	
			100					105					110			
Glu	Val	Arg	Ile	Met	Gln	Phe	Cys	His	Thr	Leu	Arg	Glu	Phe	Ala	Leu	
		115					120					125				
Glu	Tyr	Arg	Thr	Cys	Arg	Glu	Arg	Val	Leu	Gln	Gln	Gln	Gln	Lys	Gln	
	130					135					140					
Ala	Thr	Tyr	Arg	Glu	Arg	Asn	Lys	Thr	Arg	Gly	Arg	Met	Ile	Thr	Glu	
145				150						155					160	
Val	Gly	Ala	Leu	Pro	Gly	Leu	Ser	Leu	Asp	Cys	His	Leu	Leu	Gly	Phe	
				165					170					175		
Leu	Arg	Ser	Ser	Gln	Leu	Thr	Leu	Leu	Leu	Ser	Pro	Asp	Arg	Glu	Val	

180 185 190
 Leu Arg Cys Gly Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser
 195 200 205
 Ser Glu Gln Arg Ala Arg Pro Gly Arg Cys
 210 215

<210> 162
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 162
 Gly Pro Ser Trp Pro Leu Trp Pro Arg Ser Ser Leu Gly Pro Cys Leu
 1 5 10 15

Val Tyr Arg Val Trp Gly Asp Ser Met Cys Thr Pro Leu Leu Ser Gln
 20 25 30

Val Asp Phe Glu
 35

<210> 163
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 163
 Gln Leu Thr Glu Asn Leu Gly Gln Leu Glu Arg Arg Ser Arg Ala Ala
 1 5 10 15

Glu Glu Ser Leu Arg Thr Trp Pro Ser Met Ser Trp Pro Gln Pro Cys
 20 25 30

Val Pro Ala Ser
 35

<210> 164
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 164
 Pro Thr Ser Trp Thr Ser Val Pro Ala Arg Val Ala Met Leu Arg Ile
 1 5 10 15

Val His Arg Arg Val Cys Asn Arg Phe His Ala Phe Leu Leu Tyr Leu
 20 25 30

Gly Tyr Thr Pro
 35

<210> 165

<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 165
 Gln Ala Ala Arg Glu Val Arg Ile Met Gln Phe Cys His Thr Leu Arg
 1 5 10 15
 Glu Phe Ala Leu Glu Tyr Arg Thr Cys Arg Glu Arg Val Leu Gln Gln
 20 25 30
 Gln Gln Lys Gln
 35

<210> 166
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 166
 Ala Thr Tyr Arg Glu Arg Asn Lys Thr Arg Gly Arg Met Ile Thr Glu
 1 5 10 15
 Val Gly Ala Leu Pro Gly Leu Ser Leu Asp Cys His Leu Leu Gly Phe
 20 25 30
 Leu Arg Ser Ser
 35

<210> 167
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 167
 Gln Leu Thr Leu Leu Leu Ser Pro Asp Arg Glu Val Leu Arg Cys Gly
 1 5 10 15
 Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser Ser Glu Gln Arg
 20 25 30
 Ala Arg Pro Gly Arg Cys
 35

<210> 168
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 168
 Gly Ala Leu Leu Pro Gly Pro Gly Ser Ser Pro Phe Ser Pro Phe Gly
 1 5 10 15
 Leu Leu Cys Gln Gly Leu Leu Gln Pro Pro Gly Cys Glu Leu Cys Pro
 20 25 30

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Leu Pro Glu
35

<210> 169
<211> 702
<212> PRT
<213> Homo sapiens

<400> 169
Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly
1 5 10 15
Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser
20 25 30
Gly Ser Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln
35 40 45
Leu Ser Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu
50 55 60
Cys Gly Pro Glu Ser Gly Leu Pro Lys Asn Pro Ser Val Val Phe Ser
65 70 75 80
Ser Asn Glu Asp Leu Glu Val Gly Asp Gln Gln Thr Ser Leu Ile Ser
85 90 95
Thr Thr Glu Asp Ile Asn Gln Glu Glu Val Ala Val Glu Asp Asn
100 105 110
Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu Asp
115 120 125
Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn Trp
130 135 140
Gly Val Arg Arg Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro
145 150 155 160
Ser Leu Gln Glu Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu
165 170 175
Thr Asn Gln Glu Asp Thr Asp Glu Ser Ser Glu Glu Glu Ala Ala Leu
180 185 190
Thr Ala Ser Gln Ile Leu Ser Arg Thr Gln Met Leu Asn Ser Asp Ser
195 200 205
Ala Thr Asp Glu Thr Ile Pro Asp His Pro Asp Leu Leu Leu Gln Ser
210 215 220
Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln Ile Arg
225 230 235 240
Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn Ser Arg
245 250 255

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Leu	Pro	Glu	Asp 260	Thr	Thr	Ser	Val	Leu 265	Lys	Glu	Glu	His	Val 270	Thr	Thr
Phe	Glu	Asp 275	Glu	Gly	Ser	Tyr	Ile 280	Ile	Gln	Glu	Gln	Gln	Glu 285	Ser	Leu
Val	Cys 290	Gln	Gly	Ile	Leu	Asp 295	Leu	Glu	Glu	Thr	Glu 300	Met	Pro	Glu	Pro
Leu 305	Ala	Pro	Glu	Ser	Tyr 310	Pro	Glu	Ser	Val	Cys 315	Glu	Glu	Asp	Val	Thr 320
Leu	Ala	Leu	Lys 325	Glu	Leu	Asp	Glu	Arg	Cys 330	Glu	Glu	Glu	Glu	Ala 335	Asp
Phe	Ser	Gly 340	Leu	Ser	Ser	Gln	Asp 345	Glu	Glu	Glu	Gln	Asp	Gly 350	Phe	Pro
Glu	Val 355	Gln	Thr	Ser	Pro	Leu	Pro 360	Ser	Pro	Phe	Leu	Ser 365	Ala	Ile	Ile
Ala 370	Ala	Phe	Gln	Pro	Val 375	Ala	Tyr	Asp	Asp	Glu	Glu 380	Glu	Ala	Trp	Arg
Cys 385	His	Val	Asn	Gln	Met 390	Leu	Ser	Asp	Thr	Asp 395	Gly	Ser	Ser	Ala	Val 400
Phe	Thr	Phe	His 405	Val	Phe	Ser	Arg	Leu	Phe 410	Gln	Thr	Ile	Gln	Arg 415	Lys
Phe	Gly	Glu 420	Ile	Thr	Asn	Glu	Ala 425	Val	Ser	Phe	Leu	Gly	Asp 430	Ser	Leu
Gln	Arg 435	Ile	Gly	Thr	Lys	Phe	Lys 440	Ser	Ser	Leu	Glu	Val 445	Met	Met	Leu
Cys 450	Ser	Glu	Cys	Pro	Thr 455	Val	Phe	Val	Asp	Ala	Glu 460	Thr	Leu	Met	Ser
Cys 465	Gly	Leu	Leu	Glu	Thr 470	Leu	Lys	Phe	Gly	Val 475	Leu	Glu	Leu	Gln	Glu 480
His	Leu	Asp	Thr 485	Tyr	Asn	Val	Lys	Arg	Glu 490	Ala	Ala	Glu	Gln	Trp 495	Leu
Asp	Asp	Cys 500	Lys	Arg	Thr	Phe	Gly 505	Ala	Lys	Glu	Asp	Met 510	Tyr	Arg	Ile
Asn	Thr 515	Asp	Ala	Gln	Glu	Leu	Glu 520	Leu	Cys	Arg	Arg	Leu 525	Tyr	Lys	Leu
His 530	Phe	Gln	Leu	Leu	Leu	Leu 535	Phe	Gln	Ala	Tyr	Cys 540	Lys	Leu	Ile	Asn
Gln 545	Val	Asn	Thr	Ile	Lys 550	Asn	Glu	Ala	Glu	Val 555	Ile	Asn	Met	Ser	Glu 560

Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser
565 570 575

Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu
580 585 590

Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
595 600 605

Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
610 615 620

Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile
625 630 635 640

Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile
645 650 655

Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu
660 665 670

Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu
675 680 685

Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly
690 695 700

<210> 170

<211> 37

<212> PRT

<213> Homo sapiens

<400> 170

Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly
1 5 10 15

Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser
20 25 30

Gly Ser Asn Ser Asn
35

<210> 171

<211> 37

<212> PRT

<213> Homo sapiens

<400> 171

Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln Leu Ser Gln Arg Arg
1 5 10 15

Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser
20 25 30

Gly Leu Pro Lys Asn
35

001021-14992260

<210> 172
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 172
 Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu Val Gly Asp Gln
 1 5 10 15
 Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu
 20 25 30
 Val Ala Val Glu Asp
 35

<210> 173
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 173
 Asn Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu
 1 5 10 15
 Asp Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn
 20 25 30
 Trp Gly Val Arg Arg
 35

<210> 174
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 174
 Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu
 1 5 10 15
 Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu
 20 25 30
 Asp Thr Asp Glu Ser
 35

<210> 175
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 175
 Ser Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu Ser Arg Thr
 1 5 10 15

007021-64922-650

Gln Met Leu Asn Ser Asp Ser Ala Thr Asp Glu Thr Ile Pro Asp His
 20 25 30

Pro Asp Leu Leu
 35

<210> 176

<211> 37

<212> PRT

<213> Homo sapiens

<400> 176

Gln Ser Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln
 1 5 10 15

Ile Arg Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn
 20 25 30

Ser Arg Leu Pro Glu
 35

<210> 177

<211> 37

<212> PRT

<213> Homo sapiens

<400> 177

Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr Phe Glu Asp
 1 5 10 15

Glu Gly Ser Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu Val Cys Gln
 20 25 30

Gly Ile Leu Asp Leu
 35

<210> 178

<211> 37

<212> PRT

<213> Homo sapiens

<400> 178

Glu Glu Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr Pro Glu
 1 5 10 15

Ser Val Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu Asp Glu
 20 25 30

Arg Cys Glu Glu
 35

<210> 179

<211> 37

007027" E4992650

<212> PRT

<213> Homo sapiens

<400> 179

Glu	Ala	Asp	Phe	Ser	Gly	Leu	Ser	Ser	Gln	Asp	Glu	Glu	Glu	Gln	Asp
1				5					10					15	

Gly	Phe	Pro	Glu	Val	Gln	Thr	Ser	Pro	Leu	Pro	Ser	Pro	Phe	Leu	Ser
			20					25					30		

Ala	Ile	Ile	Ala	Ala
			35	

<210> 180

<211> 37

<212> PRT

<213> Homo sapiens

<400> 180

Phe	Gln	Pro	Val	Ala	Tyr	Asp	Asp	Glu	Glu	Glu	Ala	Trp	Arg	Cys	His
1				5				10						15	

Val	Asn	Gln	Met	Leu	Ser	Asp	Thr	Asp	Gly	Ser	Ser	Ala	Val	Phe	Thr
			20					25					30		

Phe	His	Val	Phe	Ser
			35	

<210> 181

<211> 37

<212> PRT

<213> Homo sapiens

<400> 181

Arg	Leu	Phe	Gln	Thr	Ile	Gln	Arg	Lys	Phe	Gly	Glu	Ile	Thr	Asn	Glu
1				5					10					15	

Ala	Val	Ser	Phe	Leu	Gly	Asp	Ser	Leu	Gln	Arg	Ile	Gly	Thr	Lys	Phe
			20					25					30		

Lys	Ser	Ser	Leu	Glu
			35	

<210> 182

<211> 37

<212> PRT

<213> Homo sapiens

<400> 182

Val	Met	Met	Leu	Cys	Ser	Glu	Cys	Pro	Thr	Val	Phe	Val	Asp	Ala	Glu
1				5					10					15	

Thr	Leu	Met	Ser	Cys	Gly	Leu	Leu	Glu	Thr	Leu	Lys	Phe	Gly	Val	Leu
			20					25					30		

007027-2493660

Glu Leu Gln Glu His
35

<210> 183
<211> 37
<212> PRT
<213> Homo sapiens

<400> 183
Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu Asp
1 5 10 15
Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile Asn
20 25 30

Thr Asp Ala Gln Glu
35

<210> 184
<211> 37
<212> PRT
<213> Homo sapiens

<400> 184
Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu
1 5 10 15
Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys
20 25 30

Asn Glu Ala Glu Val
35

<210> 185
<211> 37
<212> PRT
<213> Homo sapiens

<400> 185
Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu
1 5 10 15
Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala
20 25 30

Gln Thr Thr Ile Glu
35

<210> 186
<211> 37
<212> PRT
<213> Homo sapiens

<400> 186

007027-4493260

Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
1 5 10 15

Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
20 25 30

Ile Phe Gly Ser Cys
35

<210> 187

<211> 37

<212> PRT

<213> Homo sapiens

<400> 187

Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile Tyr Phe His His Gln
1 5 10 15

Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp
20 25 30

Met Ser Glu Ala Asn
35

<210> 188

<211> 36

<212> PRT

<213> Homo sapiens

<400> 188

Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met
1 5 10 15

Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met
20 25 30

Val Ser Thr Gly
35

<210> 189

<211> 703

<212> PRT

<213> Homo sapiens

<400> 189

Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly
1 5 10 15

Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser
20 25 30

Gly Ser Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln
35 40 45

Leu Ser Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu

0070212492250

50					55					60					
Cys 65	Gly	Pro	Glu	Ser	Gly 70	Leu	Pro	Lys	Asn 75	Pro	Ser	Val	Val	Phe	Ser 80
Ser	Asn	Glu	Asp	Leu 85	Glu	Val	Gly	Asp	Gln 90	Gln	Thr	Ser	Leu	Ile	Ser 95
Thr	Thr	Glu	Asp 100	Ile	Asn	Gln	Glu	Glu	Glu 105	Val	Ala	Val	Glu	Asp	Asn 110
Ser	Ser	Glu 115	Gln	Gln	Phe	Gly	Val 120	Phe	Lys	Asp	Phe	Asp 125	Phe	Leu	Asp
Val 130	Glu	Leu	Glu	Asp	Ala	Glu	Gly 135	Glu	Ser	Met	Asp 140	Asn	Phe	Asn	Trp
Gly 145	Val	Arg	Arg	Arg	Ser 150	Leu	Asp	Ser	Ile	Asp 155	Lys	Gly	Asp	Thr	Pro 160
Ser	Leu	Gln	Glu	Tyr 165	Gln	Cys	Ser	Ser	Ser	Thr 170	Pro	Ser	Leu	Asn	Leu 175
Thr	Asn	Gln 180	Glu	Asp	Thr	Asp	Glu	Ser	Ser 185	Glu	Glu	Glu	Ala	Ala	Leu 190
Thr	Ala	Ser 195	Gln	Ile	Leu	Ser	Arg 200	Thr	Gln	Met	Leu	Asn 205	Ser	Asp	Ser
Ala 210	Thr	Asp	Glu	Thr	Ile	Pro 215	Asp	His	Pro	Asp 220	Leu	Leu	Leu	Gln	Ser
Glu 225	Asp	Ser	Thr	Gly	Ser 230	Ile	Thr	Thr	Glu	Glu 235	Val	Leu	Gln	Ile	Arg 240
Asp	Glu	Thr	Pro	Thr 245	Leu	Glu	Ala	Ser	Leu	Asp 250	Asn	Ala	Asn	Ser	Arg 255
Leu	Pro	Glu 260	Asp	Thr	Thr	Ser	Val	Leu	Lys 265	Glu	Glu	His	Val 270	Thr	Thr
Phe	Glu	Asp 275	Glu	Gly	Ser	Tyr	Ile 280	Ile	Gln	Glu	Gln	Gln	Glu	Ser	Leu 285
Val 290	Cys	Gln	Gly	Ile	Leu	Asp 295	Leu	Glu	Glu	Thr 300	Glu	Met	Pro	Glu	Pro
Leu 305	Ala	Pro	Glu	Ser	Tyr 310	Pro	Glu	Ser	Val	Cys 315	Glu	Glu	Asp	Val	Thr 320
Leu	Ala	Leu	Lys	Glu 325	Leu	Asp	Glu	Arg	Cys 330	Glu	Glu	Glu	Glu	Ala	Asp 335
Phe	Ser	Gly 340	Leu	Ser	Ser	Gln	Asp 345	Glu	Glu	Gln	Asp	Gly 350	Phe	Pro	
Glu 355	Val	Gln	Thr	Ser	Pro	Leu	Pro 360	Ser	Pro	Phe	Leu	Ser	Ala	Ile	Ile 365

001021-4932260

Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg
 370 375 380
 Cys His Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val
 385 390 395 400
 Phe Thr Phe His Val Phe Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys
 405 410 415
 Phe Gly Glu Ile Thr Asn Glu Ala Val Ser Phe Leu Gly Asp Ser Leu
 420 425 430
 Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser Leu Glu Val Met Met Leu
 435 440 445
 Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu Thr Leu Met Ser
 450 455 460
 Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu Glu Leu Gln Glu
 465 470 475 480
 His Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu
 485 490 495
 Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile
 500 505 510
 Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu
 515 520 525
 His Phe Gln Leu Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn
 530 535 540
 Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu
 545 550 555 560
 Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser
 565 570 575
 Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu
 580 585 590
 Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile
 595 600 605
 Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp
 610 615 620
 Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile
 625 630 635 640
 Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile
 645 650 655
 Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu
 660 665 670

007027-4993460

Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu
675 680 685

Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly Phe
690 695 700

<210> 190

<211> 645

<212> PRT

<213> Homo sapiens

<400> 190

Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser Gly Leu Pro Lys Asn
1 5 10 15

Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu Val Gly Asp Gln
20 25 30

Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu
35 40 45

Val Ala Val Glu Asp Asn Ser Ser Glu Gln Gln Phe Gly Val Phe Lys
50 55 60

Asp Phe Asp Phe Leu Asp Val Glu Leu Glu Asp Ala Glu Gly Glu Ser
65 70 75 80

Met Asp Asn Phe Asn Trp Gly Val Arg Arg Arg Ser Leu Asp Ser Ile
85 90 95

Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu Tyr Gln Cys Ser Ser Ser
100 105 110

Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu Asp Thr Asp Glu Ser Ser
115 120 125

Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu Ser Arg Thr Gln
130 135 140

Met Leu Asn Ser Asp Ser Ala Thr Asp Glu Thr Ile Pro Asp His Pro
145 150 155 160

Asp Leu Leu Leu Gln Ser Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu
165 170 175

Glu Val Leu Gln Ile Arg Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu
180 185 190

Asp Asn Ala Asn Ser Arg Leu Pro Glu Asp Thr Thr Ser Val Leu Lys
195 200 205

Glu Glu His Val Thr Thr Phe Glu Asp Glu Gly Ser Tyr Ile Ile Gln
210 215 220

Glu Gln Gln Glu Ser Leu Val Cys Gln Gly Ile Leu Asp Leu Glu Glu
225 230 235 240

007621-24993667

Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val
 245 250 255
 Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys
 260 265 270
 Glu Glu Glu Glu Ala Asp Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu
 275 280 285
 Glu Gln Asp Gly Phe Pro Glu Val Gln Thr Ser Pro Leu Pro Ser Pro
 290 295 300
 Phe Leu Ser Ala Ile Ile Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp
 305 310 315 320
 Glu Glu Glu Ala Trp Arg Cys His Val Asn Gln Met Leu Ser Asp Thr
 325 330 335
 Asp Gly Ser Ser Ala Val Phe Thr Phe His Val Phe Ser Arg Leu Phe
 340 345 350
 Gln Thr Ile Gln Arg Lys Phe Gly Glu Ile Thr Asn Glu Ala Val Ser
 355 360 365
 Phe Leu Gly Asp Ser Leu Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser
 370 375 380
 Leu Glu Val Met Met Leu Cys Ser Glu Cys Pro Thr Val Phe Val Asp
 385 390 395 400
 Ala Glu Thr Leu Met Ser Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly
 405 410 415
 Val Leu Glu Leu Gln Glu His Leu Asp Thr Tyr Asn Val Lys Arg Glu
 420 425 430
 Ala Ala Glu Gln Trp Leu Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys
 435 440 445
 Glu Asp Met Tyr Arg Ile Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys
 450 455 460
 Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu Leu Phe Gln Ala
 465 470 475 480
 Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys Asn Glu Ala Glu
 485 490 495
 Val Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys
 500 505 510
 Glu Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala
 515 520 525
 Ala Gln Thr Thr Ile Glu Thr Ala Ile His Ser Leu Ile Glu Thr Leu
 530 535 540
 Lys Asn Lys Glu Phe Ile Ser Ala Val Ala Gln Val Lys Ala Phe Arg

545		550		555		560
Ser Leu Trp Pro	Ser Asp Ile Phe Gly Ser Cys Glu Asp Asp Pro Val					
	565		570		575	
Gln Thr Leu Ile His Ile Tyr Phe His His Gln Thr Leu Gly Gln Thr						
	580		585		590	
Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp Met Ser Glu Ala Asn						
	595		600		605	
Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met						
	610		615		620	
Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met						
	625		630		635	
Val Ser Thr Gly Phe						
	645					

00T027" E4932.60